



Your Reliable Power Partner

Standard Switching Power Supply Manufacturer



2015
April

LRS Series

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35~350W Economical Low Profile Type

- 85~264VAC input for LRS-35~150F; 115/230VAC selectable by switch for LRS-150~350
- Miniature size and 1U low profile
- Low no load power consumption <0.2~0.75W
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances (except for LRS-200/350)
- 3 years warranty



GST Series

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18~280W Industrial Adaptor

- 85~264VAC input
- No load power consumption <0.075~0.5W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and CoC Version 5
- Fanless design with -30~+70°C working temperature
- 3 years warranty



RST-10000

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10000W High Power

- 3 ϕ 3-wire/ Δ 196~305VAC or 3 ϕ 4-wire/Y 340~530VAC
- Vo can be trimmed 20~120% , Io can be trimmed 20~100%
- Built-in current sharing up to 20000W (2 units)
- Output models: 24V/36V/48V
- 5 years warranty



SGA40/60

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40/60W Slim Industrial Adaptor

- 90~264VAC input
- No load power consumption <0.075~0.15W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, EU ErP
- Ultra slim, model width —
40W: 32mm
60W: 35mm
- 3 years warranty



EDR-75/120/150 NDR-75/120/240/480

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75~480W Slim Economical DIN Rail

- 90~264VAC input
- Model width —
75W: 32mm
120W/150W: 40mm
240W: 63mm
480W: 85.5mm
- EDR series: 2 years warranty
NDR series: 3 years warranty



GSM120B/160B/220B

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120~220W Medical Adaptor

- Suitable for BF application (2xMOPP)
- Class II (without earth Pin)
- No load power consumption <0.15W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Low leakage current <100 μ A
- 3 years warranty



IRM-45/60-x ST

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45/60W AC/DC On Board Encapsulated Type

- 85~264VAC input
- No load power consumption <0.1W
- Miniature size, high power density
- Screw terminal I/O connection models for ST type
- Withstand 5G vibration
- 3 years warranty



HEP-100/150/185/ 240/320/600

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100~600W Harsh Environment Type

- 90~264VAC input
- High efficiency up to 96%
- Fanless design, -40~+70°C wide operating range, withstand 5G vibration, IP65/68 design, 6KV high surge immunity level
- Suitable for high dust/moisture/vibration, high/low temperature, or outdoor environment
- 5 years warranty



■ Enclosed Switching Power Supply

G3 Series	RS-15 / 25 / 35 / 50 / 75 / 100 / 150	2~3
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■ Specific Purpose Power Supply

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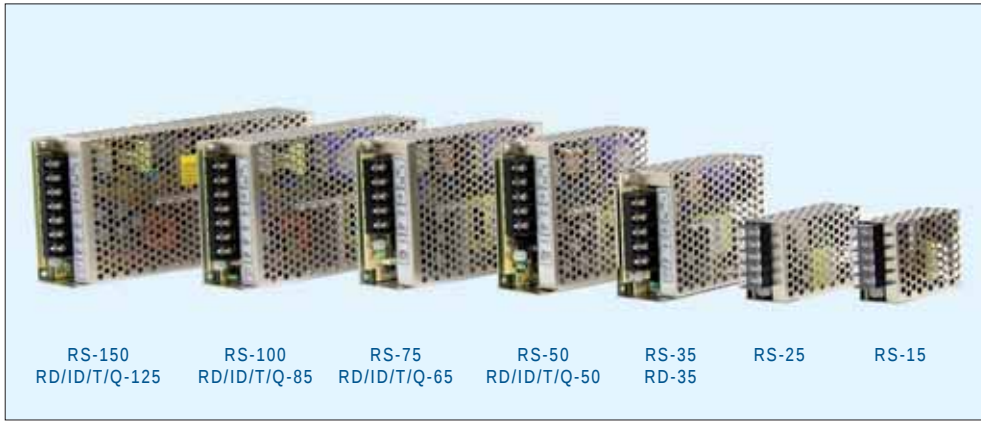
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■ Accessories / Case Drawing

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	MHS012 / 013 / 014 / 025 / 026 / 027	
	TBC-05 / 07 / 08 / 09	

	: New Announced		: Under Development
	: New Product within 1 Year		: Supplementary Information



■ Features

- No load power consumption <0.5W (RS-15~75)
- All using 105°C long life electrolytic capacitors
- Protections: Short circuit / Overload / Over voltage / Over Temp. (RS-15)
- Meet EMS EN50082-2/EN61000-6-2 heavy industry level (35~150W)
- Withstand 300VAC surge input for 5 sec.
- High operating temperature up to 70°C
- Withstand 5G vibration test
- Miniature size
- Long life and high reliability
- LED indicator for power on
- 100% full load burn-in test
- Suitable for critical applications
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	RS-15	RS-25	RS-35 RD-35	RS-50 RD / ID / T / Q-50	RS-75 RD / ID / T / Q-65	RS-100 RD / ID / T / Q-85	RS-150 RD / ID / T / Q-125
AC input voltage range	85~264VAC, 120~370VDC	88~264VAC, 125~373VDC					115 / 230VAC by switch
AC inrush current (max.)	Cold start, 65A at 230VAC	30A at 230VAC	36A at 230VAC	33A at 230VAC	40A at 230VAC		
DC adjustment range	±10% by potentiometer for single output; CH1 -5%~+10% by potentiometer for multiple output						
Overload protection	>105%, hiccup mode	110%~180%	110%~150% hiccup mode, auto-recovery (150% ~190% for RID-125-1205/2405)				
Over voltage protection	115%~135%, shut off	115%~135% rated output voltage, hiccup mode, auto-recovery					
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute						
Working temperature	-20~+70°C		-25~+70°C (refer to the derating curve for different models)				
Vibration	10~500Hz, 5G 10min. /1 cycle, period for 60 min. each along X, Y, Z axes						
Safety standards	UL60950-1, TUV EN60950-1 approved						
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2) (35~150W)						
Connection	Terminal block for input and output						
Dimension (LxWxH)(mm)	62.5x 51x 28	78x 51x 28	99x 82x 36	99x 97x 36	129x 97x 38	159x 97x 38	199x 98x 38
Case No.	971A	931A	932A	905B	903	901C	902A
Packing	108pcs /15.0kg	60pcs /13.0kg	45pcs /14.0kg	45pcs /19.5kg	30pcs /13.3kg	24pcs /15.4kg	20pcs /15kg

■ 15W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-15-3.3	3.3V, 0~3.0A	±3%	80mV	72%
RS-15-5	5V, 0~3.0A	±2%	80mV	77%
RS-15-12	12V, 0~1.3A	±1%	120mV	81%
RS-15-15	15V, 0~1.0A	±1%	120mV	81%
RS-15-24	24V, 0~0.625A	±1%	200mV	82%
RS-15-48	48V, 0~0.313A	±1%	200mV	82%

RS-50-15	15V, 0~3.4A	±1%	120mV	86.0%
RS-50-24	24V, 0~2.2A	±1%	120mV	88.0%
RS-50-48	48V, 0~1.1A	±1%	200mV	89.0%

■ 75W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-75-3.3	3.3V, 0~15A	±3%	80mV	75.0%
RS-75-5	5V, 0~12A	±2%	80mV	79.0%
RS-75-12	12V, 0~6.0A	±1%	120mV	84.5%
RS-75-15	15V, 0~5.0A	±1%	120mV	86.0%
RS-75-24	24V, 0~3.2A	±1%	120mV	88.5%
RS-75-48	48V, 0~1.6A	±1%	200mV	89.5%

■ 100W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-100-3.3	3.3V, 0~20A	±3%	80mV	74%
RS-100-5	5V, 0~16A	±2%	80mV	77%
RS-100-12	12V, 0~8.5A	±1%	120mV	81%
RS-100-15	15V, 0~7.0A	±1%	120mV	82%
RS-100-24	24V, 0~4.5A	±1%	120mV	84%
RS-100-48	48V, 0~2.3A	±1%	200mV	84%

■ 150W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-150-3.3	3.3V, 0~30A	±3%	80mV	74%
RS-150-5	5V, 0~26A	±2%	80mV	78%
RS-150-12	12V, 0~12.5A	±1%	120mV	83%
RS-150-15	15V, 0~10A	±1%	120mV	84%
RS-150-24	24V, 0~6.5A	±1%	120mV	86%
RS-150-48	48V, 0~3.3A	±1%	200mV	87%

■ 25W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-25-3.3	3.3V, 0~6.0A	±3%	80mV	73.5%
RS-25-5	5V, 0~5.0A	±2%	80mV	78.5%
RS-25-12	12V, 0~2.1A	±1%	120mV	81.5%
RS-25-15	15V, 0~1.7A	±1%	120mV	83.5%
RS-25-24	24V, 0~1.1A	±1%	120mV	86.0%
RS-25-48	48V, 0~0.57A	±1%	200mV	85.0%

■ 35W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-35-3.3	3.3V, 0~7.0A	±3%	80mV	76.5%
RS-35-5	5V, 0~7.0A	±2%	80mV	80.5%
RS-35-12	12V, 0~3.0A	±1%	120mV	84.5%
RS-35-15	15V, 0~2.4A	±1%	120mV	86.0%
RS-35-24	24V, 0~1.5A	±1%	120mV	88.0%
RS-35-48	48V, 0~0.8A	±1%	200mV	88.5%

■ 50W — Single Output

Model No.	Output	Tol.	R&N	Effi.
RS-50-3.3	3.3V, 0~10A	±3%	80mV	78.0%
RS-50-5	5V, 0~10A	±2%	80mV	83.0%
RS-50-12	12V, 0~4.2A	±1%	120mV	84.5%

Enclosed-G3 Series



35W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-35A	5V, 0.3~4.0A	±2%	80mV	79%	32W
	12V, 0.2~1.0A	±6%	120mV		
RD-35B	5V, 0.3~4.0A	±2%	80mV	82%	35W
	24V, 0.2~1.3A	±5%	120mV		
RD-3513	13.5V, 0.3~2.0A	±4%	120mV	80%	35W
	-13.5V, 0.2~0.57A	±4%	120mV		

50W — Dual Output (Output isolated for RID-50A/B)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-50A	5V, 0.3~6.0A	±2%	80mV	79%	54W
	12V, 0.3~3.0A	±7%	120mV		
RD-50B	5V, 0.3~6.0A	±2%	80mV	80%	54W
	24V, 0.2~2.0A	+8%, -4%	120mV		

65W — Dual Output (Output isolated for RID-65A/B)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-65A	5V, 0.3~8.0A	±2%	80mV	79%	66W
	12V, 0.2~4.0A	±6%	120mV		
RD-65B	5V, 0.3~8.0A	±2%	80mV	78%	68W
	24V, 0.2~3.0A	+4%, -6%	150mV		

85W — Dual Output (Output isolated for RID-85A/B)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-85A	5V, 2.0~10A	±2%	80mV	78%	88W
	12V, 0.3~5.0A	±5%	120mV		
RD-85B	5V, 2.0~10A	±2%	80mV	80%	88W
	24V, 0.3~2.5A	±5%	120mV		

125W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-125A	5V, 2.0~15A	±5%	80mV	82%	131W
	12V, 0.5~10A	±7%	120mV		
RD-125B	5V, 2.0~10A	±5%	80mV	85%	133W
	24V, 0.4~5.0A	±7%	120mV		

125W — Dual Output (Output isolated for RID-125)

Model No.	Output	Tol.	R&N	Effi.	Max.
RD-125-1224	12V, 1.0~7.0A	±2%	120mV	85%	133W
	24V, 0.4~5.0A	+8%, -5%	200mV		
RD-125-2412	24V, 0.5~5.0A	±2%	200mV	85%	133W
	12V, 1.0~7.0A	±10%	120mV		
RD-125-1248	12V, 1.0~7.0A	±2%	120mV	86%	138W
	48V, 0.2~2.5A	+8%, -5%	240mV		
RD-125-4812	48V, 0.3~2.5A	±2%	240mV	86%	138W
	12V, 1.0~7.0A	±10%	120mV		
RD-125-2448	24V, 0.5~4.0A	±1%	200mV	86%	144W
	48V, 0.2~2.5A	±4%	240mV		
RD-125-4824	48V, 0.3~2.5A	±1%	240mV	86%	144W
	24V, 0.5~4.0A	±8%	240mV		
RID-125-1205	12V, 2.0~10.5A	±2%	120mV	80%	125W
	5V, 0.0~3.0A	±3%	80mV		
RID-125-2405	24V, 2.0~5.3A	±2%	120mV	83%	125W
	5V, 0.0~3.0A	±3%	80mV		

50W — Quad Output (RT-50 without -5V or -12V output)

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-50B	5V, 0.5~6.0A	±2%	80mV	74%	46W
	12V, 0.2~1.5A	±6%	120mV		
	-5V, 0.0~1.0A	±3%	100mV		
	-12V, 0.0~1.0A	±3%	80mV		
RQ-50C	5V, 0.5~6.0A	±2%	80mV	75%	50W
	15V, 0.2~1.5A	±6%	120mV		
	-5V, 0.0~1.0A	±3%	100mV		
	-15V, 0.0~1.0A	±3%	80mV		
RQ-50D	5V, 0.5~6.0A	±2%	80mV	79%	53W
	12V, 0.2~1.5A	±6%	120mV		
	24V, 0.1~1.0A	+7%, -5%	180mV		
	-12V, 0.0~1.0A	±3%	80mV		

65W — Quad Output (RT-65 without -5V or -12V output)

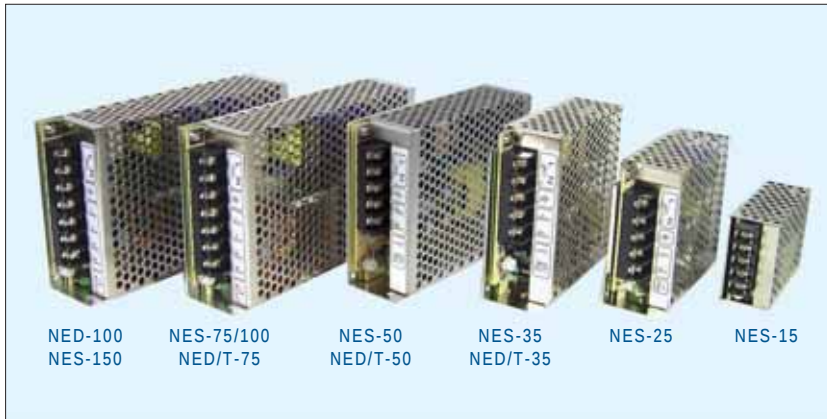
Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-65B	5V, 0.5~8.0A	±2%	80mV	76%	63W
	12V, 0.2~3.0A	+9%, -5%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-65C	5V, 0.5~8.0A	±2%	80mV	76%	65W
	15V, 0.2~3.0A	+10%, -4%	120mV		
	-5V, 0.0~1.0A	±5%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-65D	5V, 0.5~8.0A	±2%	80mV	78%	68W
	12V, 0.2~3.0A	±6%	120mV		
	24V, 0.1~1.5A	±8%	180mV		
	-12V, 0.0~1.0A	±5%	80mV		

85W — Quad Output (RT-85 without -5V or -12V output)

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-85B	5V, 2.0~10A	±2%	80mV	76%	81W
	12V, 0.3~4.0A	+7%, -3%	120mV		
	-5V, 0.0~1.0A	±8%	100mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-85C	5V, 2.0~10A	±2%	80mV	77%	83W
	15V, 0.3~4.0A	+3%, -7%	120mV		
	-5V, 0.0~1.0A	±8%	100mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-85D	5V, 2.0~10A	±2%	80mV	78%	84W
	12V, 0.3~4.0A	+7%, -3%	120mV		
	24V, 0.1~1.5A	±8%	150mV		
	-12V, 0.0~1.0A	±5%	80mV		

125W — Quad Output (RT-125 without -5V or -12V output)

Model No.	Output	Tol.	R&N	Effi.	Max.
RQ-125B	5V, 2.0~12A	±2%	80mV	79%	120W
	12V, 0.5~4.5A	+8%, -3%	120mV		
	-5V, 0.1~1.0A	+6%, -10%	80mV		
	-12V, 0.0~1.0A	±5%	80mV		
RQ-125C	5V, 2.0~12A	±2%	80mV	80%	123W
	15V, 0.5~4.0A	+8%, -3%	120mV		
	-5V, 0.1~1.0A	+6%, -10%	80mV		
	-15V, 0.0~1.0A	±5%	80mV		
RQ-125D	5V, 2.0~12A	±2%	80mV	82%	124W
	12V, 0.5~4.0A	+8%, -3%	120mV		
	24V, 0.1~2.5A	±8%	150mV		
	-12V, 0.0~1.0A	±5%	80mV		



Features

- Universal AC input / Full range
(NES/D-100, NES-150 AC input selectable by switch)
- Protections: Short circuit / Overload / Over voltage
- Built-in over temperature protection for NES-15
- Cooling by free air convection
- 100% full load burn-in test
- Most economical low wattage solution with safety certificates
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	NES-15	NES-25	NES-35 NED/T-35	NES-50 NED/T-50	NES-75 NED/T-75	NES-100	NES-150 NED-100
AC input voltage range	85~264VAC; 120~370VDC					115/230VAC by switch	
AC inrush current (max.)	Cold start, 45A at 230VAC						
DC adjustment range	±10% by potentiometer for single output; CH1 -5%~+10% by potentiometer for multiple output					-5%~+10% (NES-100/150) CH1 -5%~+10% (NED-100)	
Overload protection	>105%	110%~150% hiccup mode, auto-recovery					
Over voltage protection	115%~135% rated output voltage, shut off					115%~135% hiccup mode, auto-recovery	
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 2kVAC, O/P - FG: 0.5kVAC, 1 minute						
Working temperature	-20~+60°C (refer to the derating curve for different models)						
Vibration	10~500Hz, 2G 10min. /1 cycle, period for 60 min. each along X, Y, Z axes						
Safety standards	UL60950-1, EN60950-1(NES-150 only), GB4943(NES only) approved, also design refer to TUV EN60950-1						
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254(NES only)						
Connection	Terminal block for input and output						
Dimension (LxWxH)(mm)	78x 51x 28	99x 82x 35	99x 97x 36	129x 98x 38	159x 97x 38	159x 97x 38	199x 98x 38
Case No.	931A	932B	905	903	901	901	902
Packing	60pcs/11.8kg	45pcs/14.5kg	45pcs/17.2kg	45pcs/21kg	30pcs/16.6kg	30pcs/17.5kg	20pcs/15kg

15W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-15-5	5V, 0~3.0A	±2%	150mV	79%
NES-15-12	12V, 0~1.3A	±1%	150mV	81%
NES-15-15	15V, 0~1.0A	±1%	150mV	81%
NES-15-24	24V, 0~0.7A	±1%	200mV	85%
NES-15-48	48V, 0~0.35A	±1%	240mV	82%

25W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-25-5	5V, 0~5.0A	±2%	80mV	78%
NES-25-12	12V, 0~2.1A	±1%	120mV	83%
NES-25-15	15V, 0~1.7A	±1%	150mV	84%
NES-25-24	24V, 0~1.1A	±1%	200mV	86%
NES-25-48	48V, 0~0.57A	±1%	240mV	86%

35W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-35-5	5V, 0~7.0A	±2%	80mV	78%
NES-35-12	12V, 0~3.0A	±1%	120mV	81%
NES-35-15	15V, 0~2.4A	±1%	150mV	83%
NES-35-24	24V, 0~1.5A	±1%	200mV	85%
NES-35-48	48V, 0~0.8A	±1%	240mV	86%

50W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-50-5	5V, 0~10A	±2%	80mV	79%
NES-50-12	12V, 0~4.2A	±1%	120mV	82%
NES-50-15	15V, 0~3.4A	±1%	150mV	83%
NES-50-24	24V, 0~2.2A	±1%	200mV	86%
NES-50-48	48V, 0~1.1A	±1%	240mV	87%

75W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-75-5	5V, 0~14A	±2%	80mV	77%
NES-75-12	12V, 0~6.2A	±1%	120mV	82%
NES-75-15	15V, 0~5.0A	±1%	150mV	83%
NES-75-24	24V, 0~3.2A	±1%	200mV	86%
NES-75-48	48V, 0~1.6A	±1%	240mV	87%

100W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-100-5	5V, 0~20A	±2%	80mV	80%
NES-100-7.5	7.5V, 0~13.6A	±1%	120mV	81%
NES-100-9	9V, 0~11.2A	±1%	120mV	81%
NES-100-12	12V, 0~8.5A	±1%	120mV	83%
NES-100-15	15V, 0~7.0A	±1%	120mV	84%
NES-100-24	24V, 0~4.5A	±1%	120mV	86%
NES-100-48	48V, 0~2.3A	±1%	150mV	86%

150W — Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-150-3.3	3.3V, 0~30A	±3%	80mV	73%
NES-150-5	5V, 0~26A	±2%	80mV	78%
NES-150-7.5	7.5V, 0~20A	±1%	120mV	80%
NES-150-9	9V, 0~16.7A	±1%	120mV	83%
NES-150-12	12V, 0~12.5A	±1%	120mV	83%
NES-150-15	15V, 0~10A	±1%	120mV	83%
NES-150-24	24V, 0~6.5A	±1%	120mV	86%
NES-150-48	48V, 0~3.3A	±1%	200mV	86%

Enclosed-NE Series



35W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-35A	5V, 0.5~5.0A	±2%	80mV	78%	32W
	12V, 0.1~1.5A	±6%	120mV		
NED-35B	5V, 0.5~4.0A	±2%	80mV	81%	35W
	24V, 0.2~1.3A	±6%	200mV		

50W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-50A	5V, 1.0~6.0A	±2%	80mV	79%	54W
	12V, 0.3~3.0A	±6%	120mV		
NED-50B	5V, 1.0~6.0A	±2%	80mV	82%	54W
	24V, 0.2~2.0A	±6%	200mV		

75W — Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-75A	5V, 1.0~8.0A	±2%	80mV	78%	71W
	12V, 0.3~4.0A	±6%	120mV		
NED-75B	5V, 1.0~6.0A	±2%	80mV	81%	73W
	24V, 0.2~3.0A	±6%	200mV		

100W — Dual Output (Output isolated for NED-100-IGD)

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-100A	5V, 2~10A	±2%	80mV	80%	100W
	12V, 0.7~7.0A	±10%	120mV		
NED-100B	5V, 1~10A	±2%	80mV	82%	100W
	24V, 0.3~3.5A	±8%	200mV		
NED-100C	12V, 0~8.0A	±2%	120mV	80%	99W
	5V, 0~3.0A	±3%	80mV		
NED-100D	24V, 0~4.0A	±2%	120mV	82%	99W
	5V, 0~3.0A	±3%	80mV		

35W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-35A	5V, 0.5~4.0A	±2%	80mV	78%	30W
	12V, 0.1~1.5A	±6%	120mV		
	-5V, 0.1~0.5A	±6%	120mV		
NET-35B	5V, 0.5~4.0A	±2%	80mV	79%	33W
	12V, 0.1~1.5A	±6%	120mV		
	-12V, 0.1~0.5A	±6%	120mV		
NET-35C	5V, 0.5~3.5A	±2%	80mV	79%	35W
	15V, 0.1~1.5A	±8%	150mV		
	-15V, 0.1~0.5A	±8%	150mV		
NET-35D	5V, 0.5~3.5A	±2%	80mV	79%	37W
	24V, 0.1~1.0A	±8%	200mV		
	12V, 0.1~1.0A	±8%	120mV		

50W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-50A	5V, 0.6~5.0A	±2%	80mV	76%	47W
	12V, 0.2~2.5A	±6%	120mV		
	-5V, 0.1~0.7A	±5%	120mV		
NET-50B	5V, 0.6~5.0A	±2%	80mV	78%	50W
	12V, 0.2~2.5A	±6%	120mV		
	-12V, 0.1~0.7A	±5%	120mV		
NET-50C	5V, 0.6~5.0A	±2%	80mV	78%	50W
	15V, 0.1~2.0A	±8%	150mV		
	-15V, 0.1~0.7A	±5%	150mV		
NET-50D	5V, 0.6~5.0A	±2%	80mV	80%	51W
	24V, 0.1~1.5A	±8%	200mV		
	12V, 0.1~1.5A	±6%	120mV		

75W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-75A	5V, 0.6~7.0A	±2%	80mV	77%	69W
	12V, 0.2~3.5A	±6%	120mV		
	-5V, 0.1~0.7A	±5%	120mV		
NET-75B	5V, 0.6~7.0A	±2%	80mV	78%	65W
	12V, 0.2~3.5A	±6%	120mV		
	-12V, 0.1~0.7A	±5%	120mV		
NET-75C	5V, 0.6~7.0A	±2%	80mV	78%	72W
	15V, 0.1~3.5A	±8%	150mV		
	-15V, 0.1~0.7A	±5%	150mV		
NET-75D	5V, 0.6~6.0A	±2%	80mV	80%	73W
	24V, 0.1~2.0A	±8%	200mV		
	12V, 0.1~1.5A	±6%	120mV		

210W Single Output Switching Power Supply



CASE: 912E

215x 115x 50 mm

- AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload
Over voltage / Over temp.
- Cooling by free air convection
- Built-in constant current limiting circuit
- 100% full load burn-in test
- LED indicator for power on
- Low cost, high reliability
- 2 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch

DC adjustment range ±10% rated output range

Overload protection 105%~150% constant current limiting, auto-recovery

Over voltage protection 115%~145% rated output voltage

Setup, rise, hold up time 1000ms, 50ms, 20ms at full load and 230VAC

Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC

Working temperature -20~+50°C (refer to output derating curve)

Safety standards UL60950-1 approved

Packing 0.93kg ; 12pcs / 12kg / 0.92CUFT

Model No.	Output	Tol.	R&N	Effi.
NES-200-3.3	3.3V, 0~40A	±2%	150mV	75%
NES-200-5	5V, 0~40A	±2%	150mV	79%
NES-200-7.5	7.5V, 0~27A	±2%	150mV	82%
NES-200-12	12V, 0~17A	±1%	150mV	85%
NES-200-15	15V, 0~14A	±1%	150mV	85%
NES-200-24	24V, 0~8.8A	±1%	150mV	87%
NES-200-27	27V, 0~7.8A	±1%	200mV	88%
NES-200-36	36V, 0~5.9A	±1%	240mV	89%
NES-200-48	48V, 0~4.4A	±1%	240mV	89%

350W Single Output Switching Power Supply



CASE: 912C

215x 115x 50 mm

- AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload
Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- Built-in fan ON/OFF control
- Built-in constant current limiting circuit
- 100% full load burn-in test
- LED indicator for power on
- Low cost, high reliability
- 2 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch

DC adjustment range ±10% rated output range

Overload protection 105%~135% constant current limiting, auto-recovery

Over voltage protection 115%~145% rated output voltage

Setup, rise, hold up time 1000ms, 50ms, 20ms at full load and 230VAC

Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC

Working temperature -20~+60°C (refer to output derating curve)

Safety standards UL60950-1 approved

Packing 1.07kg ; 12pcs / 13.5kg / 0.92CUFT

Model No.	Output	Tol.	R&N	Effi.
NES-350-3.3	3.3V, 0~60A	+3%, -4.5%	150mV	74.0%
NES-350-5	5V, 0~60A	±3.0%	150mV	78.0%
NES-350-7.5	7.5V, 0~46A	±2.0%	150mV	80.0%
NES-350-12	12V, 0~29A	±1.5%	150mV	83.0%
NES-350-15	15V, 0~23.2A	±1.0%	150mV	84.0%
NES-350-24	24V, 0~14.6A	±1.0%	150mV	87.0%
NES-350-27	27V, 0~13A	±1.0%	200mV	88.0%
NES-350-36	36V, 0~9.7A	±1.0%	240mV	87.5%
NES-350-48	48V, 0~7.3A	±1.0%	240mV	87.5%

Enclosed-SE Series 100~450W Single Output



■ Features

- AC input selectable by switch
- Withstand 300VAC surge input for 5 seconds (SE-200/350)
- Protections: Short circuit / Overload / Over voltage / Over temperature (except for SE-100)
- Forced air cooling by built-in DC fan (SE-350/450)
- Built-in fan ON/OFF control (SE-350)
- Built-in constant current limiting circuit (SE-200/350)
- Withstand 5G vibration test (SE-200/350)
- Built-in remote sense function (SE-450)
- 100% full load burn-in test
- LED indicator for power on
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	SE-100	SE-200	SE-350	SE-450
AC input voltage range	115/230VAC by switch			
AC inrush current (max.)	Cold start, 36A at 230VAC	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC	Cold start, 55A at 230VAC
DC adjustment range	-5%~+10% rated output voltage			
Overload protection	Range	110%~150%	105%~150%	105%~150%
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery	Shut down o/p voltage, re-power on to recover
Over voltage protection	115%~135%	115%~145%		
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P-FG: 0.5kVAC			
Working temperature	-20~+60°C	-20~+50°C	-20~+60°C	-10~+60°C (refer to output derating curve)
Safety standards	UL60950-1, GB4943(SE-100 only) approved			
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254 for SE-100 only			
Connection	7P/9.5mm pitch terminal block	9P/9.5mm pitch terminal block with cover	9P/11mm pitch terminal block with cover	
Dimension (LxWxH)(mm)	159x 97x 38	215x 115x 50	225x 124x 50	
Case No.	901	912E	912C	986A
Packing	30pcs / 17.5kg	12pcs / 12kg	12pcs / 13.5kg	12pcs / 16kg

■ SE-100 Series



Model No.	Output	Tol.	R&N	Effi.
SE-100-5	5V, 0~20A	±2%	80mV	80%
SE-100-7.5	7.5V, 0~13.6A	±1%	120mV	81%
SE-100-9	9V, 0~11.2A	±1%	120mV	81%
SE-100-12	12V, 0~8.5A	±1%	120mV	83%
SE-100-15	15V, 0~7.0A	±1%	120mV	84%
SE-100-24	24V, 0~4.5A	±1%	120mV	86%
SE-100-48	48V, 0~2.3A	±1%	150mV	86%

■ SE-200 Series



Model No.	Output	Tol.	R&N	Effi.
SE-200-3.3	3.3V, 0~40A	±2%	150mV	75%
SE-200-5	5V, 0~40A	±2%	150mV	79%
SE-200-7.5	7.5V, 0~27A	±2%	150mV	82%
SE-200-12	12V, 0~17A	±1%	150mV	85%
SE-200-15	15V, 0~14A	±1%	150mV	85%
SE-200-24	24V, 0~8.8A	±1%	150mV	87%
SE-200-27	27V, 0~7.8A	±1%	200mV	88%
SE-200-36	36V, 0~5.9A	±1%	240mV	89%
SE-200-48	48V, 0~4.4A	±1%	240mV	89%

■ SE-350 Series



Model No.	Output	Tol.	R&N	Effi.
SE-350-3.3	3.3V, 0~60A	+3%, -4.5%	150mV	74.0%
SE-350-5	5V, 0~60A	±3.0%	150mV	78.0%
SE-350-7.5	7.5V, 0~46A	±2.0%	150mV	80.0%
SE-350-12	12V, 0~29A	±1.5%	150mV	83.0%
SE-350-15	15V, 0~23.2A	±1.0%	150mV	84.0%
SE-350-24	24V, 0~14.6A	±1.0%	150mV	87.0%
SE-350-27	27V, 0~13A	±1.0%	200mV	88.0%
SE-350-36	36V, 0~9.7A	±1.0%	240mV	87.5%
SE-350-48	48V, 0~7.3A	±1.0%	240mV	87.5%

■ SE-450 Series



Model No.	Output	Tol.	R&N	Effi.
SE-450-3.3	3.3V, 0~75A	±3%	200mV	74%
SE-450-5	5V, 0~75A	±3%	200mV	78%
SE-450-12	12V, 0~37.5A	±1%	200mV	83%
SE-450-15	15V, 0~30A	±1%	200mV	84%
SE-450-24	24V, 0~18.8A	±1.5%	200mV	86%
SE-450-36	36V, 0~12.5A	±1%	200mV	86%
SE-450-48	48V, 0~9.4A	±1%	200mV	88%



Features

- AC input selectable by switch (SE-600/1000)
AC input 180~264VAC only (SE-1500)
- Protections:
Short circuit / Overload / Over voltage /
Over temperature
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- DC OK, remote ON/OFF control (SE-1000/1500)
- 100% full load burn-in test
- LED indicator for power on
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		SE-600	SE-1000	SE-1500
AC input voltage range		115/230VAC by switch		180~264VAC
AC inrush current (max.)		Cold start, 60A at 230VAC	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC
DC adjustment range		±10% rated output voltage		
Overload protection	Range	105%~125%		
	Type	Shut down o/p voltage, re-power on to recover		
Over voltage protection		115%~140% Shut down o/p voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
Working temperature		-20~+60°C (refer to output derating curve)		-20~+70°C (refer to output derating curve)
Safety standards		UL60950-1 approved		
EMC standards		Design refer to EN55022 class B		
Connection		Terminal block with cover for input and output (SE-1000/1500: copper pillars for output)		
Dimension (LxWxH)(mm)		247x 127x 63.5	278x 127x 63.5	278x 177.8x 63.5
Case No.		926A	935B	982A
Packing		6pcs / 13.4kg	6pcs / 16kg	4pcs / 14.2kg

600W SE-600

Model No.	Output	Tol.	R&N	Effi.
SE-600-5	5V, 0~100A	±2%	150mV	78%
SE-600-12	12V, 0~50A	±1%	150mV	83%
SE-600-15	15V, 0~40A	±1%	150mV	84%
SE-600-24	24V, 0~25A	±1%	150mV	87%
SE-600-27	27V, 0~22.2A	±1%	150mV	87%
SE-600-36	36V, 0~16.6A	±1%	200mV	87%
SE-600-48	48V, 0~12.5A	±1%	200mV	88%

1500W SE-1500

Model No.	Output	Tol.	R&N	Effi.
SE-1500-5	5V, 0~300A	±2%	150mV	81%
SE-1500-12	12V, 0~125A	±1%	150mV	85%
SE-1500-15	15V, 0~100A	±1%	150mV	85%
SE-1500-24	24V, 0~62.5A	±1%	150mV	87%
SE-1500-27	27V, 0~55.6A	±1%	150mV	88%
SE-1500-48	48V, 0~31.3A	±1%	150mV	89%

1000W SE-1000

Model No.	Output	Tol.	R&N	Effi.
SE-1000-5	5V, 0~150A	±1%	150mV	81%
SE-1000-9	9V, 0~100A	±1%	150mV	84%
SE-1000-12	12V, 0~83.3A	±1%	150mV	85%
SE-1000-15	15V, 0~66.7A	±1%	150mV	86%
SE-1000-24	24V, 0~41.7A	±1%	200mV	88%
SE-1000-48	48V, 0~20.8A	±1%	200mV	89%



We provide specification, drawing, test report and more information, please visit our web site
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Who can provide you better services and be a trustworthy partner in the power industry?

— "MEAN WELL" tries to be —



Best products also need best service.

We have authorized distributors all over the world. They have sufficient stock for your prompt delivery. Also they can offer you technical support & RMA services. Please contact your local distributors for more product information. You can also contact us at info@meanwell.com for information of your local distributors.



Features

- No load power consumption <0.2W for 35W/50W; <0.3W for 75W/100W
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances
- Operating altitude up to 5000 meters
- High efficiency, long life and high reliability
- LED indicator for power on
- Low cost
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		LRS-35	LRS-50	LRS-75	LRS-100
AC input voltage range		85~264VAC ; 120~370VDC			
AC inrush current (max.)		Cold start, 40A at 230VAC			50A at 230VAC
DC adjustment range		±10% by potentiometer			
Overload protection	Range	110%~150%			
	Type	Hiccup mode, auto-recovery			
Over voltage protection	Range	115%~135% rated output voltage			
	Type	Shut down o/p voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC, 1 minute			
Working temperature		-30~+70°C (refer to output derating curve)			
Safety standards		UL60950-1, IEC/EN60950-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943 approved			
EMC standards		EN55022 class B, EN55014, EN61000-3-2, 3, EN61000-4,2,3,4,5,6,8,11, GB9254			
Connection		5P/9.5mm pitch terminal block			7P/9.5mm pitch terminal block
Dimension (LxWxH) (mm)		99x 82x 30		99x 97x 30	129x 97x 30

35W LRS-35

Model No.	Output	Tol.	R&N	Effi.
LRS-35-5	5V, 0~7A	±2%	80mV	82.0%
LRS-35-12	12V, 0~3A	±1%	120mV	86.0%
LRS-35-15	15V, 0~2.4A	±1%	120mV	86.0%
LRS-35-24	24V, 0~1.5A	±1%	150mV	88.0%
LRS-35-36	36V, 0~1A	±1%	200mV	88.0%
LRS-35-48	48V, 0~0.8A	±1%	200mV	89.0%

75W LRS-75

Model No.	Output	Tol.	R&N	Effi.
LRS-75-5	5V, 0~14A	±2%	100mV	84.0%
LRS-75-12	12V, 0~6A	±1%	120mV	87.0%
LRS-75-15	15V, 0~5A	±1%	120mV	88.0%
LRS-75-24	24V, 0~3.2A	±1%	150mV	89.0%
LRS-75-36	36V, 0~2.1A	±1%	200mV	89.0%
LRS-75-48	48V, 0~1.6A	±1%	200mV	90.0%

50W LRS-50

Model No.	Output	Tol.	R&N	Effi.
LRS-50-3.3	3.3V, 0~10A	±3%	80mV	78.0%
LRS-50-5	5V, 0~10A	±2%	80mV	83.0%
LRS-50-12	12V, 0~4.2A	±1%	120mV	87.0%
LRS-50-15	15V, 0~3.4A	±1%	120mV	88.0%
LRS-50-24	24V, 0~2.2A	±1%	150mV	88.0%
LRS-50-36	36V, 0~1.45A	±1%	200mV	89.0%
LRS-50-48	48V, 0~1.1A	±1%	200mV	90.0%

100W LRS-100

Model No.	Output	Tol.	R&N	Effi.
LRS-100-3.3	3.3V, 0~20A	±3%	100mV	84.5%
LRS-100-5	5V, 0~18A	±2%	100mV	86.0%
LRS-100-12	12V, 0~8.5A	±1%	120mV	88.0%
LRS-100-15	15V, 0~7A	±1%	120mV	88.5%
LRS-100-24	24V, 0~4.5A	±1%	150mV	90.0%
LRS-100-36	36V, 0~2.8A	±1%	200mV	90.5%
LRS-100-48	48V, 0~2.3A	±1%	200mV	91.0%



■ Features

- No load power consumption <0.5W for 150W; <0.75W for 200W/350W
- AC input selectable by switch (LRS-150F Universal AC input / Full range)
- Withstand 300VAC surge input for 5 seconds
- Ultra compact and 1U low profile
- Withstand 5G vibration test
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection (150W/200W); forced air cooling by built-in DC fan (350W)
- Compliance to IEC/EN60335-1(PD3) and IEC/EN61558-1,-2-16 for household appliances (150W)
- Operating altitude up to 5000 meters
- LED indicator for power on
- High efficiency, long life and high reliability
- Low cost
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		LRS-150F	LRS-150	LRS-200	LRS-350
AC input voltage range		85~264VAC; 120~370VDC	115 / 230VAC by switch		
AC inrush current(max.)		Cold start, 70A at 230VAC		Cold start, 60A at 230VAC	
DC adjustment range		±10% by potentiometer			
Overload protection	Range	110%~140%			
	Type	Hiccup mode, auto-recovery			
Over voltage protection	Range	115%~145% rated output voltage			
	Type	Shut down o/p voltage, re-power on to recover			
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.25kVAC		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC	
Working temperature		-30~+70°C		-25~+70°C (refer to output derating curve)	
Safety standards		UL60950-1, IEC/EN60950-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943 approved		UL60950-1 approved	
EMC standards		EN55022 class B, EN55014, EN61000-3-2, 3, EN61000-4,2,3,4,5,6,8,11, GB9254		Design refer to EN55022 class A	
Connection		7P/9.5mm pitch terminal block		9P/9.5mm pitch terminal block	
Dimension (LxWxH) (mm)		159x 97x 30		215x 115x 30	

■ LRS-150 Series



Model No.	Output	Tol.	R&N	Effi.
LRS-150-12	12V, 0~12.5A	±1%	150mV	87.5%
LRS-150-15	15V, 0~10A	±1%	150mV	89.0%
LRS-150-24	24V, 0~6.5A	±1%	200mV	89.0%
LRS-150-36	36V, 0~4.3A	±1%	200mV	89.0%
LRS-150-48	48V, 0~3.3A	±1%	200mV	90.0%

■ LRS-200 Series



Model No.	Output	Tol.	R&N	Effi.
LRS-200-3.3	3.3V, 0~40A	±3%	150mV	83.0%
LRS-200-4.2	4.2V, 0~40A	±4%	150mV	86.0%
LRS-200-5	5V, 0~40A	±3%	150mV	87.0%
LRS-200-12	12V, 0~17A	±1.5%	150mV	87.5%
LRS-200-15	15V, 0~14A	±1%	150mV	88.0%
LRS-200-24	24V, 0~8.8A	±1%	150mV	89.5%
LRS-200-36	36V, 0~5.9A	±1%	200mV	89.5%
LRS-200-48	48V, 0~4.4A	±1%	200mV	90.0%

■ LRS-150F Series



Model No.	Output	Tol.	R&N	Effi.
LRS-150F-5	5V, 0~22A	±2%	100mV	85.0%
LRS-150F-12	12V, 0~12.5A	±1%	150mV	87.5%
LRS-150F-15	15V, 0~10A	±1%	150mV	89.0%
LRS-150F-24	24V, 0~6.5A	±1%	200mV	89.0%
LRS-150F-36	36V, 0~4.3A	±1%	200mV	89.0%
LRS-150F-48	48V, 0~3.3A	±1%	200mV	90.0%

■ LRS-350 Series



Model No.	Output	Tol.	R&N	Effi.
LRS-350-3.3	3.3V, 0~60A	±4%	150mV	79.5%
LRS-350-4.2	4.2V, 0~60A	±4%	150mV	81.5%
LRS-350-5	5V, 0~60A	±3%	150mV	83.5%
LRS-350-12	12V, 0~29A	±1.5%	150mV	85.0%
LRS-350-15	15V, 0~23.2A	±1%	150mV	86.0%
LRS-350-24	24V, 0~14.6A	±1%	150mV	88.0%
LRS-350-36	36V, 0~9.7A	±1%	200mV	88.5%
LRS-350-48	48V, 0~7.3A	±1%	200mV	89.0%



Features

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature (SP-150 / 200 / 240)
- Cooling by free air convection (SP-75 / 100 / 150)
- Forced air cooling by built-in DC fan (SP-200 / 240)
- Optional remote ON/OFF control (SP-75~200)
- Built-in fan speed control (SP-200)
- Built-in fan ON/OFF control (SP-240)
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		SP-75	SP-100	SP-150	SP-200	SP-240
AC input voltage range		85~264VAC; 120~370VDC				88~264VAC; 124~370VDC
AC inrush current (max.)		Cold start, 45A at 230VAC	Cold start, 35A at 230VAC	Cold start, 45A at 230VAC	Cold start, 50A at 230VAC	Cold start, 40A at 230VAC
DC adjustment range		-5%~+10% rated output voltage				±15% rated output voltage
Overload protection	Range	105%~150%				105%~135%
	Type	Constant current limiting, auto-recovery				Hiccup mode, auto-recovery
Over voltage protection	Range	115%~135%	110%~135%		120%~150%	
	Type	Shut off, AC recycle to re-start				
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute				
Working temperature		-10~+60°C		-10~+55°C	-10~+60°C	-20~+70°C
Safety standards		UL60950-1, TUV EN60950-1, GB4943(SP-200 only) approved				
EMC standards		EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, GB9254(SP-200 only)				
Connection		5P / 9.5mm pitch	7P / 9.5mm pitch terminal block with cover			
Dimension (LxWxH)(mm)		179x 97x 33	179x 99x 45	199x 99x 50	199x 99x 50	190x 93x 50
Case No.		920A	915A	916A	916B	987A
Packing		20pcs/12.0kg	20pcs/14.3kg	20pcs/16.4kg	20pcs/17.9kg	18pcs/15.4kg

75W SP-75

Model No.	Output	Tol.	R&N	Effi.
SP-75-3.3	3.3V, 0~15A	±2%	80mV	70.0%
SP-75-5	5V, 0~15A	±2%	80mV	76.0%
SP-75-7.5	7.5V, 0~10A	±2%	80mV	79.0%
SP-75-12	12V, 0~6.3A	±2%	80mV	81.0%
SP-75-13.5	13.5V, 0~5.6A	±2%	80mV	82.0%
SP-75-15	15V, 0~5.0A	±2%	80mV	82.0%
SP-75-24	24V, 0~3.2A	±1%	100mV	83.0%
SP-75-27	27V, 0~2.8A	±1%	100mV	83.0%
SP-75-48	48V, 0~1.6A	±1%	100mV	83.0%

100W SP-100

Model No.	Output	Tol.	R&N	Effi.
SP-100-3.3	3.3V, 0~20.0A	±2%	100mV	75.0%
SP-100-5	5V, 0~20.0A	±2%	100mV	79.0%
SP-100-7.5	7.5V, 0~13.5A	±2%	100mV	82.0%
SP-100-12	12V, 0~8.50A	±2%	100mV	82.5%
SP-100-13.5	13.5V, 0~7.50A	±2%	100mV	83.0%
SP-100-15	15V, 0~6.70A	±2%	100mV	84.0%
SP-100-24	24V, 0~4.20A	±1%	150mV	87.0%
SP-100-27	27V, 0~3.80A	±1%	150mV	86.0%
SP-100-48	48V, 0~2.10A	±1%	250mV	84.0%

150W SP-150

Model No.	Output	Tol.	R&N	Effi.
SP-150-3.3	3.3V, 0~30.0A	±2%	100mV	73.0%
SP-150-5	5V, 0~30.0A	±2%	100mV	77.5%
SP-150-7.5	7.5V, 0~20.0A	±2%	100mV	81.0%
SP-150-12	12V, 0~12.5A	±2%	100mV	84.0%
SP-150-13.5	13.5V, 0~11.2A	±2%	100mV	84.0%
SP-150-15	15V, 0~10.0A	±2%	100mV	85.0%
SP-150-24	24V, 0~6.30A	±1%	150mV	85.0%
SP-150-27	27V, 0~5.60A	±1%	150mV	85.0%
SP-150-48	48V, 0~3.20A	±1%	250mV	85.0%

200W SP-200

Model No.	Output	Tol.	R&N	Effi.
SP-200-3.3	3.3V, 0~40.0A	±2%	100mV	69.0%
SP-200-5	5V, 0~40.0A	±2%	100mV	76.0%
SP-200-7.5	7.5V, 0~26.7A	±2%	100mV	78.5%
SP-200-12	12V, 0~16.7A	±2%	100mV	84.0%
SP-200-13.5	13.5V, 0~14.9A	±2%	100mV	84.0%
SP-200-15	15V, 0~13.4A	±2%	100mV	84.0%
SP-200-24	24V, 0~8.40A	±1%	150mV	85.0%
SP-200-27	27V, 0~7.50A	±1%	150mV	85.0%
SP-200-48	48V, 0~4.20A	±1%	250mV	85.0%

240W SP-240

Model No.	Output	Tol.	R&N	Effi.
SP-240-5	5V, 0~45A	±2%	150mV	79.0%
SP-240-7.5	7.5V, 0~32A	±2%	150mV	83.0%
SP-240-12	12V, 0~20A	±1%	150mV	86.0%
SP-240-15	15V, 0~16A	±1%	150mV	86.0%
SP-240-24	24V, 0~10A	±1%	150mV	87.0%
SP-240-30	30V, 0~8.0A	±1%	150mV	88.0%
SP-240-48	48V, 0~5.0A	±1%	150mV	89.0%



48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.



Features

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in fan speed control (SP-320)
- Built-in remote sense function and ON/OFF control (SP-480/750 & PSP-600)
- Current sharing up to 2400W (3+1) (PSP-600)
- With DC OK signal output (PSP-600)
- With PG/PF signal output (SP-750)
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	SP-320	SP-480	PSP-600	SP-750
AC input voltage range	88~264VAC	85~264VAC	88~264VAC	90~264VAC
AC inrush current (max.)	Cold start, 40A at 230VAC			Cold Start, 45A at 230VAC
DC adjustment range	±10% rated output voltage			
Overload protection	Range	105%~135%	105%~145%	105%~135%
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery	Constant current limiting, auto-recovery
Over voltage protection	115%~145%	115%~140%		
Withstand voltage	I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC(short for SP-480), 1 minute			
Working temperature	-20~+65°C	-20~+60°C		
Safety standards	UL60950-1, TUV EN60950-1 approved; GB4943 approved also for SP-320 (expect for 3.3V/ 5PNC/ 36V)			
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN61000-6-2(SP-480/750), GB9254 (SP-320 only)			
Connection	9P / 9.5mm pitch terminal block with cover	9P / 11mm pitch terminal block with cover	7+8P / 9.5mm pitch terminal block with cover	5P / 10mm pitch terminal block with cover for input; copper pillars for output
Dimension (LxWxH)(mm)	215x115x50	278x127x43	170x120x93	278x127x63.5
Case No.	912G	929A	910A	919A
Packing	12pcs / 14.0kg	6pcs / 11.3kg	8pcs / 15.5kg	6pcs / 18.4kg

SP-320 Series



Model No.	Output	Tol.	R&N	Effi.
*SP-320-3.3	3.3V, 0~60.0A	±1%	150mV	74%
SP-320-5	5V, 0~55.0A	±2%	150mV	79%
*SP-320-5PNC	5V, 0~55.0A	±2%	150mV	80%
SP-320-7.5	7.5V, 0~40.0A	±2%	150mV	83%
SP-320-12	12V, 0~25.0A	±1%	150mV	86%
SP-320-13.5	13.5V, 0~22.0A	±1%	150mV	86%
SP-320-15	15V, 0~20.0A	±1%	150mV	86%
SP-320-24	24V, 0~13.0A	±1%	150mV	87%
SP-320-27	27V, 0~11.7A	±1%	200mV	88%
*SP-320-36	36V, 0~8.80A	±1%	220mV	87%
SP-320-48	48V, 0~6.70A	±1%	240mV	89%

* Without models

❖ SP-320-5PNC with conformal coating and high ambient temperature operation ability is suitable for LED moving sign applications, MOQ required.

SP-480 Series



Model No.	Output	Tol.	R&N	Effi.
SP-480-3.3	3.3V, 0~85A	±2.0%	80mV	73%
SP-480-5	5V, 0~85A	±2.0%	80mV	79%
SP-480-12	12V, 0~43A	±1.5%	120mV	85%
SP-480-15	15V, 0~35A	±1.5%	150mV	85%
SP-480-24	24V, 0~22A	±1.0%	150mV	87%
SP-480-48	48V, 0~11A	±1.0%	240mV	89%

PSP-600 Series



Model No.	Output	Tol.	R&N	Effi.
PSP-600-5	5V, 0~80A	±2%	180mV	79%
PSP-600-12	12V, 0~50A	±1%	240mV	84%
PSP-600-13.5	13.5V, 0~44.5A	±1%	240mV	85%
PSP-600-15	15V, 0~40A	±1%	240mV	85%
PSP-600-24	24V, 0~25A	±1%	240mV	86%
PSP-600-27	27V, 0~22.2A	±1%	240mV	86%
PSP-600-48	48V, 0~12.5A	±1%	300mV	87%

SP-750 Series



Model No.	Output	Tol.	R&N	Effi.
SP-750-5	5V, 0~120A	±2%	120mV	80%
SP-750-12	12V, 0~62.5A	±1%	120mV	85%
SP-750-15	15V, 0~50.0A	±1%	120mV	87%
SP-750-24	24V, 0~31.3A	±1%	120mV	89%
SP-750-27	27V, 0~27.8A	±1%	120mV	89%
SP-750-48	48V, 0~15.7A	±1%	120mV	90%



Who can provide you better services and be a trustworthy partner in the power industry?

— "MEAN WELL" tries to be —



Features

- Ultra low profile: 30mm
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature (RSP-100/150/200)
- Cooling by free air convection
- Built-in constant current limiting circuit (RSP-75/100/150)
- Remote ON/OFF control (RSP-75/100/150)
- LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	RSP-75	RSP-100	RSP-150	RSP-200
AC input voltage range	85~264VAC; 120~370VDC			88~264VAC; 124~370VDC
AC inrush current (max.)	Cold start, 35A at 230VAC	30A at 230VAC	45A at 230VAC	40A at 230VAC
DC adjustment range	-5%~+10% rated output voltage			±10% rated output voltage
Overload protection	Range	105%~135%		105%~150%
	Type	Constant current limiting, auto-recovery		Hiccup mode, auto-recovery
Over voltage protection	Range	110%~135%		115%~145%
	Type	Shut down O/P voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	-25~+70°C		-30~+70°C (refer to output derating curve)	
Safety standards	UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, CCC GB4943 approved; UL62368-1 approved for RSP-150 only			UL60950-1, TUV EN60950-1, CCC GB4943 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254			
Connection	5P / 9.5mm pitch terminal block	7P / 9.5mm pitch terminal block	9P / 9.5mm pitch terminal block	9P / 9.5mm pitch terminal block
Dimension (LxWxH) (mm)	159x97x30	179x99x30	199x99x30	215x115x30

75W RSP-75

Model No.	Output	Tol.	R&N	Effi.
RSP-75-3.3	3.3V, 0~15A	±2%	80mV	76.0%
RSP-75-5	5V, 0~15A	±2%	80mV	82.0%
RSP-75-7.5	7.5V, 0~10A	±2%	80mV	84.0%
RSP-75-12	12V, 0~6.3A	±2%	120mV	85.0%
RSP-75-13.5	13.5V, 0~5.6A	±2%	120mV	85.0%
RSP-75-15	15V, 0~5A	±2%	120mV	86.0%
RSP-75-24	24V, 0~3.2A	±1%	120mV	87.0%
RSP-75-27	27V, 0~2.8A	±1%	120mV	88.0%
RSP-75-48	48V, 0~1.6A	±1%	200mV	89.0%

150W RSP-150

Model No.	Output	Tol.	R&N	Effi.
RSP-150-3.3	3.3V, 0~30A	±2%	100mV	81.5%
RSP-150-5	5V, 0~30A	±2%	100mV	87.0%
RSP-150-7.5	7.5V, 0~20A	±2%	100mV	88.5%
RSP-150-12	12V, 0~12.5A	±2%	100mV	90.0%
RSP-150-13.5	13.5V, 0~11.2A	±2%	100mV	87.5%
RSP-150-15	15V, 0~10A	±2%	100mV	88.5%
RSP-150-24	24V, 0~6.3A	±1%	150mV	89.0%
RSP-150-27	27V, 0~5.6A	±1%	150mV	89.5%
RSP-150-48	48V, 0~3.2A	±1%	250mV	90.0%

100W RSP-100

Model No.	Output	Tol.	R&N	Effi.
RSP-100-3.3	3.3V, 0~20A	±2%	100mV	83.0%
RSP-100-5	5V, 0~20A	±2%	100mV	86.0%
RSP-100-7.5	7.5V, 0~13.5A	±2%	100mV	87.0%
RSP-100-12	12V, 0~8.5A	±1%	100mV	86.0%
RSP-100-13.5	13.5V, 0~7.5A	±1%	100mV	86.5%
RSP-100-15	15V, 0~6.7A	±1%	100mV	87.0%
RSP-100-24	24V, 0~4.2A	±1%	150mV	87.0%
RSP-100-27	27V, 0~3.8A	±1%	150mV	87.0%
RSP-100-48	48V, 0~2.1A	±1%	250mV	88.0%

200W RSP-200

Model No.	Output	Tol.	R&N	Effi.
RSP-200-2.5	2.5V, 0~40A	±2%	100mV	79.5%
RSP-200-3.3	3.3V, 0~40A	±2%	100mV	81.5%
RSP-200-4	4V, 0~40A	±2%	100mV	84.0%
RSP-200-5	5V, 0~40A	±2%	150mV	85.5%
RSP-200-7.5	7.5V, 0~26.7A	±2%	150mV	89.0%
RSP-200-12	12V, 0~16.7A	±1%	150mV	89.0%
RSP-200-13.5	13.5V, 0~14.9A	±1%	150mV	89.0%
RSP-200-15	15V, 0~13.4A	±1%	150mV	89.5%
RSP-200-24	24V, 0~8.4A	±1%	150mV	89.5%
RSP-200-27	27V, 0~7.5A	±1%	200mV	89.0%
RSP-200-36	36V, 0~5.56A	±1%	220mV	90.0%
RSP-200-48	48V, 0~4.2A	±1%	240mV	90.0%



RSP-750

RSP-500

RSP-320

Features

- 1U low profile
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp. / Fan alarm (RSP-750)
- Forced air cooling by built-in DC fan
- Vo can be trimmed 40~110% by 2~5.5VDC external control signal (RSP-750)
- Io can be trimmed 40~110% by 2~5.5VDC external control signal (RSP-750)
- Built-in remote sense and ON/OFF control (RSP-500/750)
- Built-in auxiliary power (RSP-750)
- DC OK signal (RSP-750)
- LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		RSP-320	RSP-500	RSP-750
AC input voltage range		88~264VAC; 124~370VDC	85~264VAC; 120~370VDC	90~264VAC; 127~370VDC
AC inrush current(max.)		Cold start, 40A at 230VAC		
DC adjustment range		±10% rated output voltage		
Overload protection	Range	105%~135%	105%~130%	105%~125%
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery	
Over voltage protection	Range	115%~145%		
	Type	Shut down O/P voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		UL60950-1, TUV EN60950-1 approved; CCC GB4943 approved for RSP-320 only		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(RSP-500/750), GB9254(RSP-320 only)		
Connection	Input	9P / 9.5mm pitch terminal block	3P / 9.5mm pitch terminal block	3P / 10mm pitch terminal block with cover
	Output		6P / 11mm pitch terminal block	Copper pillars
Dimension (LxWxH) (mm)		215x115x30	230x127x40.5	250x127x41
Case No.		207A	226A	212A

320W RSP-320

Model No.	Output	Tol.	R&N	Effi.
RSP-320-2.5	2.5V, 0~60A	±2%	100mV	75.5%
RSP-320-3.3	3.3V, 0~60A	±2%	100mV	79.5%
RSP-320-4	4V, 0~60A	±2%	100mV	81.0%
RSP-320-5	5V, 0~60A	±2%	150mV	83.0%
*RSP-320-5CC	5V, 0~60A	±2%	150mV	83.0%
RSP-320-7.5	7.5V, 0~40A	±2%	150mV	88.0%
RSP-320-12	12V, 0~26.7A	±1%	150mV	88.0%
RSP-320-13.5	13.5V, 0~23.8A	±1%	150mV	88.0%
RSP-320-15	15V, 0~21.4A	±1%	150mV	88.5%
RSP-320-24	24V, 0~13.4A	±1%	150mV	89.0%
RSP-320-27	27V, 0~11.9A	±1%	200mV	89.0%
RSP-320-36	36V, 0~8.9A	±1%	220mV	89.5%
RSP-320-48	48V, 0~6.7A	±1%	240mV	90.0%

* RSP-320-5CC with conformal coating is suitable for LED moving sign applications, MOQ required.

500W RSP-500

Model No.	Output	Tol.	R&N	Effi.
RSP-500-3.3	3.3V, 0~90A	±2%	120mV	81.0%
RSP-500-4	4V, 0~90A	±2%	120mV	83.0%
RSP-500-5	5V, 0~90A	±2%	150mV	84.0%
RSP-500-12	12V, 0~41.7A	±1%	150mV	88.0%
RSP-500-15	15V, 0~33.4A	±1%	150mV	88.0%
RSP-500-24	24V, 0~21A	±1%	150mV	89.0%
RSP-500-27	27V, 0~18.6A	±1%	150mV	89.5%
RSP-500-48	48V, 0~10.5A	±1%	150mV	90.5%

750W RSP-750

Model No.	Output	Tol.	R&N	Effi.
RSP-750-5	5V, 0~100A	±2%	150mV	82.0%
RSP-750-12	12V, 0~62.5A	±1%	150mV	87.0%
RSP-750-15	15V, 0~50A	±1%	150mV	89.0%
RSP-750-24	24V, 0~31.3A	±1%	150mV	90.5%
RSP-750-27	27V, 0~27.8A	±1%	150mV	90.5%
RSP-750-48	48V, 0~15.7A	±1%	150mV	92.0%



Features

- Universal AC input / Full range (RSP-1000/1500/2000)
AC input 180~264VAC only (RSP-2400/3000)
- Built-in active PFC function
- Protections:
Short circuit / Overload / Over voltage /
Over temperature / Fan alarm (RSP-2400/3000)
- Forced air cooling by built-in DC fan
- High power density up to 21.4W/in³ (RSP-2000)
- Vo can be trimmed by external resistor or external control signal
- Built-in current sharing
- Built-in remote sense and ON/OFF control
- Built-in auxiliary power
- DC OK signal (RSP-1000/2000)
- Alarm signal output (RSP-1500/2000/2400/3000)
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		RSP-1000	RSP-1500	RSP-2000	RSP-2400	RSP-3000
AC input voltage range		90~264VAC; 127~370VDC			180~264VAC; 254~370VDC	
AC inrush current (max.)		Cold start, 40A at 230VAC	Cold start, 60A at 230VAC	Cold start, 50A at 230VAC	Cold start, 60A at 230VAC	
DC adjustment range		±10% rated output voltage	-30%~+10% rated output voltage	±10% rated output voltage		
Overload protection	Range	105%~125%	105%~135%	105%~125%	100%~112%	
	Type	Constant current limiting, auto-recovery	Constant current limiting, shut off after 5 sec., re-power on to recover		Constant current limiting, shut off after 5 sec., re-power on to recover (can adjust to continuous constant current limiting)	
Over voltage protection	Range	115%~135%	115%~140%	120%~145%	115%~140%	
	Type	Shut down O/P voltage, re-power on to recover				
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC				
Working temperature		-20~+60°C	-20~+70°C	-35~+70°C	-20~+70°C	
Safety standards		UL60950-1, TUV EN60950-1 approved				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(RSP-1000/2000)				
Connection	Input	3P/10mm pitch terminal block with cover	3P/13mm pitch terminal block with cover	3P/10mm pitch terminal block with cover	3P/13mm pitch terminal block with cover	
	Output	Copper pillars				
Dimension (LxWxH) (mm)		295x127x41	278x127x83.5	295x127x41	278x177.8x63.5	
Case No.		952B	943A	952D	982B	
Packing		1.95kg; 6pcs / 12.7kg / 1.15CUFT	3.0kg; 4pcs / 13kg / 1.19CUFT	1.95kg; 6pcs / 12.7kg / 1.15CUFT	3.3kg; 4pcs / 14.2kg / 1.89CUFT	4kg; 4pcs / 16kg / 1.89CUFT

1000W RSP-1000

Model No.	Output	Tol.	R&N	Effi.
RSP-1000-12	12V, 0~60A	±1%	150mV	83%
RSP-1000-15	15V, 0~50A	±1%	150mV	85%
RSP-1000-24	24V, 0~40A	±1%	150mV	88%
RSP-1000-27	27V, 0~37A	±1%	150mV	88%
RSP-1000-48	48V, 0~21A	±1%	150mV	90%

1500W RSP-1500

Model No.	Output	Tol.	R&N	Effi.
RSP-1500-5	5V, 0~240A	±2%	150mV	80%
RSP-1500-12	12V, 0~125A	±1%	150mV	87%
RSP-1500-15	15V, 0~100A	±1%	150mV	87%
RSP-1500-24	24V, 0~63A	±1%	150mV	90%
RSP-1500-27	27V, 0~56A	±1%	150mV	90%
RSP-1500-48	48V, 0~32A	±1%	200mV	91%

2000W RSP-2000

Model No.	Output	Tol.	R&N	Effi.
RSP-2000-12	12V, 0~100A	±2%	150mV	87.0%
RSP-2000-24	24V, 0~80A	±1%	200mV	90.5%
RSP-2000-48	48V, 0~42A	±1%	300mV	92.0%

2400W RSP-2400

Model No.	Output	Tol.	R&N	Effi.
RSP-2400-12	12V, 0~166.7A	±1%	150mV	88.0%
RSP-2400-24	24V, 0~100A	±1%	150mV	90.5%
RSP-2400-48	48V, 0~50A	±1%	200mV	91.5%

3000W RSP-3000

Model No.	Output	Tol.	R&N	Effi.
RSP-3000-12	12V, 0~200A	±1%	150mV	87.5%
RSP-3000-24	24V, 0~125A	±1%	150mV	90.0%
RSP-3000-48	48V, 0~62.5A	±1%	200mV	91.5%

5000W & 10000W Single Output

- 3 ϕ 3-wire/ Δ 196~305VAC or 3 ϕ 4-wire/ Y 340~530VAC wide input range
- Built-in active PFC function
- High efficiency up to 91%
- Protections: Short circuit / Overload / Over voltage / Over temp./ Fan alarm
- Built-in fan speed control
- Vo can be trimmed 20~120% by 1~6VDC external control signal
- Io can be trimmed 20~100% by 1~5VDC external control signal
- Current sharing up to 4 units for RST-5000, up to 2 units for RST-10000
- Built-in remote sense and ON/OFF control
- Built-in 12V/0.1A auxiliary power
- Alarm signal output
- 5 years warranty



AC input voltage range	3 ϕ 3-wire/ Δ 196~305VAC or 3 ϕ 4-wire/ Y 340~530VAC
DC adjustment range	-2%~+20% rated output voltage
AC inrush current	Cold start, 50A (RST-5000); 100A(RST-10000) at 400VAC(3 ϕ 4-wire/Y) 75A(RST-5000); 150A(RST-10000) at 230VAC (3 ϕ 3-wire/ Δ)
Overload protection	100%~112% constant current limiting, auto-recovery (can adjust to delay shut off)
Over voltage protection	125%~140% shut down O/P voltage, re-power on to recover
Setup, rise, hold up time	2200ms, 80ms, 14ms at full load
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class A, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2

◆ RST-5000 Series

Model No.	Output	Tol.	R&N	Effi.
RST-5000-24	24V, 0~200A	±1%	150mV	89%
RST-5000-36	36V, 0~138A	±1%	200mV	90%
RST-5000-48	48V, 0~105A	±1%	200mV	91%

◆ RST-10000 Series

Model No.	Output	Tol.	R&N	Effi.
RST-10000-24	24V, 0~400A	±1%	150mV	89%
RST-10000-36	36V, 0~276A	±1%	200mV	90%
RST-10000-48	48V, 0~210A	±1%	200mV	91%

150~1500W Output Voltage Programmable

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Vo can be trimmed 20~110% by 1~5.5VDC external control signal
- Forced air cooling by built-in DC fan (except for SPV-150)
- Cooling by free air convection (SPV-150)
- Built-in remote sense and ON/OFF control (SPV-1500)
- Built-in 12V/0.1A auxiliary power and current sharing up to 4500W (SPV-1500)
- 3 years warranty



AC input voltage range	88~264VAC (SPV-150/300); 90~264VAC (SPV-1500)
DC adjustment range	-15%~+10% (SPV-150/300); ±5% (SPV-1500) rated output voltage
AC inrush current	Cold start, 40A (SPV-150/300); 60A (SPV-1500) at 230VAC
Overload protection	105%~150% (SPV-150); 105%~135% (SPV-300/1500) constant current limiting, auto-recovery
Over voltage protection	115%~140%(SPV-150/300); 120%~140%(SPV-1500) shut down O/P voltage, re-power on to recover
Withstand voltage	I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	-20~+65°C (SPV-150/300); -20~+70°C (SPV-1500)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
Packing	12pcs / 14kg (SPV-150/300); 4pcs / 13kg (SPV-1500)

◆ SPV-150 Series

Model No.	Output	Tol.	R&N	Effi.
SPV-150-12	12V, 0~12.5A	±1%	150mV	82%
SPV-150-24	24V, 0~6.25A	±1%	150mV	83%
SPV-150-48	48V, 0~3.125A	±1%	240mV	83%

◆ SPV-300 Series

Model No.	Output	Tol.	R&N	Effi.
SPV-300-12	12V, 0~25A	±1%	150mV	83.5%
SPV-300-24	24V, 0~12.5A	±1%	150mV	85.0%
SPV-300-48	48V, 0~6.25A	±1%	240mV	86.5%

◆ SPV-1500 Series

Model No.	Output	Tol.	R&N	Effi.
SPV-1500-12	12V, 0~125A	±1%	150mV	86.5%
SPV-1500-24	24V, 0~63A	±1%	150mV	90.0%
SPV-1500-48	48V, 0~32A	±1%	200mV	90.0%



Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Over temperature protection (200~320W built-in, option for 100W and 150W)
- Built-in active PFC function
- Cooling by free air convection (75W / 100W)
- Forced air cooling by built-in DC fan (150W / 200W / 320W)
- 100% full load burn-in test
- 3 years warranty



General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		TP-75	TP-100 QP-100	TP-150 QP-150	QP-200	QP-320
AC input voltage range		90~264VAC; 127~370VDC				
AC inrush current (max.)		Cold start, 20A at 230VAC	Cold start, 40A at 230VAC		Cold start, 50A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range		CH1: -5%~+10% rated output voltage	CH1: -5%~+10% rated output voltage (CH1&2 for QP-100/150-3x, QP-100/150-D/F)		CH1&2: -5%~+10% rated output voltage	
Overload protection	Range	105%~150%				
	Type	Hiccup mode, auto-recovery			Constant current limiting, auto-recovery	Fold back current limiting, auto-recovery
Over voltage protection		CH1: 115%~135%	115%~135% for CH1 or CH1&2			
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 2kVAC, O/P - FG:0.5kVAC, 1 minute				
Working temperature		-10~+60°C (refer to output derating curve)				-10~+70°C
Setup, rise, hold up time		800ms, 60ms, 36ms at full load and 230VAC	800ms, 60ms, 24ms at full load and 230VAC(TP-100/150); 800ms, 50ms, 24ms at full load and 230VAC (QP-100/150)		800ms, 50ms, 24ms at full load and 230VAC	800ms, 50ms, 16ms at full load and 230VAC
Safety standards		UL60950-1, TUV EN60950-1 approved				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11				
Connection		8P/7.62mm pitch terminal block	9P/7.62mm pitch terminal block with cover		9P/9.5mm pitch terminal block with cover	
Dimension (LxWxH)(mm)		179x 99x 33	199x 99x 50		215x 115x 50	
Case No.		920A	916A	916B	912B	912I

75W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-75A	5V, 1.5~10A	±3%	100mV	70%	74W
	12V, 0.2~4.0A	±4%	120mV		
	-5V, 0.0~0.6A	±8%	100mV		
TP-75B	5V, 1.5~10A	±3%	100mV	70%	76W
	12V, 0.2~4.0A	±4%	120mV		
	-12V, 0.0~0.6A	±8%	120mV		
TP-75C	5V, 1.5~10A	±3%	100mV	70%	75W
	15V, 0.2~3.0A	±4%	120mV		
	-15V, 0.0~0.6A	±8%	120mV		
TP-75D	5V, 1.5~10A	±3%	100mV	70%	76W
	24V, 0.2~2.5A	±4%	120mV		
	12V, 0.0~0.6A	±8%	120mV		
TP-7503	5V, 1.5~10A	±3%	100mV	70%	75W
	3.3V, 0.2~8.0A	±4%	50mV		
	12V, 0.0~0.6A	±8%	120mV		

100W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-100A	5V, 3.0~15A	±3%	100mV	75%	101W
	12V, 0.4~5.0A	±7%	120mV		
	-5V, 0.0~1.0A	±6%	100mV		
TP-100B	5V, 3.0~15A	±3%	100mV	78%	105W
	12V, 0.4~5.0A	±6%	120mV		
	-12V, 0.0~1.0A	±6%	100mV		
TP-100C	5V, 3.0~15A	±3%	100mV	77%	104W
	15V, 0.4~4.0A	+10%, -6%	150mV		
	-15V, 0.0~1.0A	±6%	100mV		
TP-100D	5V, 3.0~15A	±3%	100mV	78%	105W
	24V, 0.4~3.0A	±8%	150mV		
	12V, 0.0~1.0A	±6%	100mV		

150W — Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
TP-150A	5V, 2.0~20A	±3%	100mV	75%	150W
	12V, 0.4~7.0A	±8%	120mV		
	-5V, 0.0~1.0A	±6%	100mV		
TP-150B	5V, 2.0~20A	±3%	100mV	77%	148W
	12V, 0.4~7.0A	±8%	120mV		
	-12V, 0.0~1.0A	±6%	100mV		
TP-150C	5V, 2.0~20A	±3%	100mV	77%	152W
	15V, 0.4~6.0A	+10%, -6%	150mV		
	-15V, 0.0~1.0A	±6%	100mV		
TP-150D	5V, 2.0~20A	±3%	100mV	78%	154W
	24V, 0.4~4.0A	±8%	150mV		
	12V, 0.0~1.0A	±6%	100mV		

100W — Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-100B	5V, 2.0~10A	±3%	100mV	76%	101W
	12V, 0.3~4.0A	±6%	150mV		
	-12V, 0.15~1.0A	+10%, -6%	150mV		
QP-100C	-5V, 0.0~1.0A	±5%	100mV	77%	101W
	5V, 2.0~10A	±3%	100mV		
	15V, 0.3~3.0A	+6%, -10%	150mV		
QP-100D	-15V, 0.15~1.0A	±8%	150mV	78%	100W
	-5V, 0.0~1.0A	±5%	100mV		
	5V, 2.0~10A	±3%	120mV		
	12V, 0.0~3.0A	±3%	150mV		
	24V, 0.3~2.0A	±6%	200mV		
QP-100F	-12V, 0.0~1.0A	±5%	150mV	78%	103W
	5V, 2.0~10A	±3%	120mV		
	15V, 0.0~3.0A	±3%	180mV		
	24V, 0.3~2.0A	±6%	200mV		
QP-100-3A	-15V, 0.0~1.0A	±5%	150mV	74%	99W
	5V, 2.0~10A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV		
	12V, 0.3~3.0A	±6%	150mV		
QP-100-3B	-5V, 0.0~1.0A	±5%	150mV	74%	100W
	5V, 2.0~10A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV		
	12V, 0.3~3.0A	±6%	150mV		
QP-100-3C	-12V, 0.0~1.0A	±5%	150mV	75%	101W
	5V, 2.0~10A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV		
	15V, 0.3~2.0A	+8%, -6%	150mV		
QP-100-3D	-15V, 0.0~1.0A	±5%	150mV	75%	105W
	5V, 2.0~10A	±3%	100mV		
	3.3V, 0.0~10A	±3%	100mV		
	24V, 0.3~2.0A	±6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV		

150W — Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-150B	5V, 3.0~15A	±3%	100mV	76%	150W
	12V, 0.4~5.0A	±6%	150mV		
	-12V, 0.3~2.0A	+10%, -6%	150mV		
QP-150C	-5V, 0.0~1.0A	±5%	100mV	77%	153W
	5V, 3.0~15A	±3%	100mV		
	15V, 0.4~4.0A	+6%, -10%	150mV		
QP-150D	-15V, 0.3~2.0A	±8%	150mV	78%	150W
	-5V, 0.0~1.0A	±5%	100mV		
	5V, 3.0~15A	±3%	120mV		
	12V, 0.0~5.0A	±3%	150mV		
	24V, 0.4~3.0A	±6%	200mV		
	-12V, 0.0~1.0A	±5%	150mV		

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-150F	5V, 3.0~15A	±3%	120mV	78%	152W
	15V, 0.0~5.0A	±3%	150mV		
	24V, 0.4~3.0A	±6%	200mV		
	-15V, 0.0~1.0A	±5%	150mV		

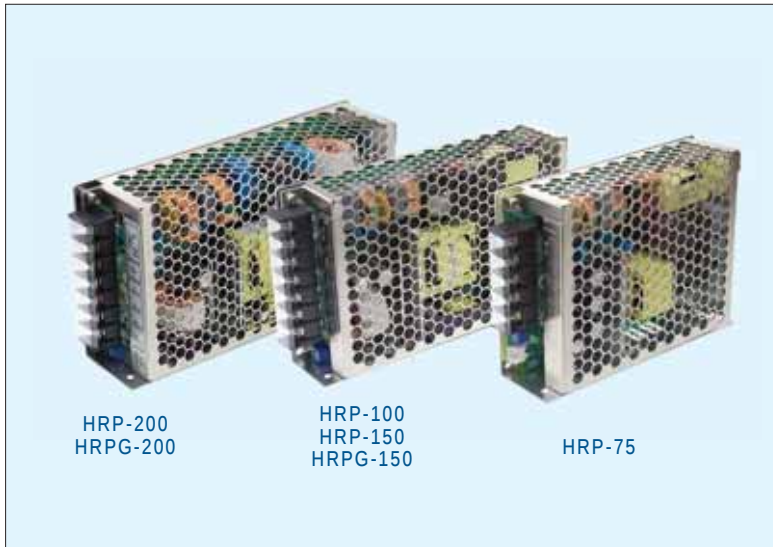
Model No.	Output	Tol.	R&N	Effi.	Max.
QP-150-3A	5V, 3.0~15A	±3%	100mV	73%	146W
	3.3V, 0.0~15A	±3%	100mV		
	12V, 0.4~5.0A	±6%	150mV		
	-5V, 0.0~1.0A	±5%	150mV		
QP-150-3B	5V, 3.0~15A	±3%	100mV	75%	150W
	3.3V, 0.0~15A	±3%	100mV		
	12V, 0.4~5.0A	±6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV		
QP-150-3C	5V, 3.0~15A	±3%	100mV	74%	152W
	3.3V, 0.0~15A	±3%	100mV		
	15V, 0.4~5.0A	+8%, -6%	150mV		
	-15V, 0.0~1.0A	±5%	150mV		
QP-150-3D	5V, 3.0~15A	±3%	100mV	76%	150W
	3.3V, 0.0~15A	±3%	100mV		
	24V, 0.3~3.0A	±6%	150mV		
	-12V, 0.0~1.0A	±5%	150mV		

200W — Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-200D	5V, 3.0~20A	±3%	100mV	75%	203W
	12V, 0.0~7.0A	±3%	150mV		
	24V, 0.4~6.0A	+10%, -6%	150mV		
	-12V, 0.0~1.0A	±6%	150mV		
QP-200F	5V, 3.0~20A	±3%	100mV	75%	203W
	15V, 0.0~6.0A	±3%	150mV		
	24V, 0.4~6.0A	+10%, -6%	150mV		
	-15V, 0.0~1.0A	±6%	150mV		
QP-200-3A	5V, 3.0~20A	±3%	100mV	72%	200W
	3.3V, 0.0~20A	±3%	100mV		
	12V, 0.5~8.0A	+8%, -10%	150mV		
	-5V, 0.0~1.0A	±6%	150mV		
QP-200-3B	5V, 3.0~20A	±3%	100mV	72%	205W
	3.3V, 0.0~20A	±3%	100mV		
	12V, 0.5~8.0A	+8%, -10%	150mV		
	-12V, 0.0~1.0A	±6%	150mV		
QP-200-3C	5V, 3.0~20A	±3%	100mV	72%	210W
	3.3V, 0.0~20A	±3%	100mV		
	15V, 0.5~7.0A	+10%, -6%	150mV		
	-15V, 0.0~1.0A	±6%	150mV		
QP-200-3D	5V, 3.0~20A	±3%	100mV	74%	204W
	3.3V, 0.0~20A	±3%	100mV		
	24V, 0.4~6.0A	+10%, -6%	150mV		
	-12V, 0.0~1.0A	±6%	150mV		
QP-200-3E	5V, 3.0~20A	±3%	100mV	74%	206W
	3.3V, 0.0~20A	±3%	100mV		
	24V, 0.4~6.0A	+10%, -6%	150mV		
	-15V, 0.0~1.0A	±6%	150mV		

320W — Quad Output

Model No.	Output	Tol.	R&N	Effi.	Max.
QP-320D	5V, 2.5~20A	±3%	100mV	83%	316W
	12V, 0.0~10A	±3%	150mV		
	24V, 0.2~5.0A	+10%, -6%	150mV		
	-12V, 0.2~2.0A	±10%	150mV		
QP-320F	5V, 2.5~20A	±3%	100mV	83%	316W
	15V, 0.0~10A	±3%	150mV		
	24V, 0.2~5.0A	+10%, -6%	150mV		
	-15V, 0.2~1.6A	±10%	150mV		



■ Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections:
 - Short circuit / Overload / Over voltage /
 - Over temperature (optional for HRP-75 / HRP-100)
- Built-in constant current limiting circuit
- Built-in remote sense function (HRP□-150 / 200)
- No load power consumption<0.5W (except for HRP-150/200)
- Built-in remote ON/OFF control (except for HRP-150 / 200)
- Built-in 5V / 0.3A standby output (HRPG-150 / 200)
- Cooling by free air convection
- 1U low profile
- LED indicator for power on
- 100% full load burn-in test
- 5 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		HRP-75	HRP-100	HRP□-150	HRP□-200
AC input voltage range		85~264VAC; 120~370VDC			
AC inrush current (max.)		Cold start, 65A at 230VAC		Cold start; 70A at 230VAC	
DC adjustment range		-5%~+10% rated output voltage		±15% rated output voltage	
Overload protection	Range	105%~135%			
	Type	Constant current limiting, auto-recovery			
Over voltage protection		115%~145%			
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute			
Working temperature		-40~+70°C (refer to output derating curve)	-40~+60°C	-40~+70°C	
Safety standards		UL60950-1, TUV EN60950-1 approved			
EMC standards		EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN61000-6-2 heavy industry level			
Connection		5P/9.5mm pitch terminal block with cover	7P/9.5mm pitch terminal block with cover		
Dimension (LxWxH)(mm)		129x98x38	159x97x38		199x 98x 38
Case No.		903D	901I		902E

■ 75W HRP-75

Model No.	Output	Tol.	R&N	Effi.
HRP-75-3.3	3.3V, 0~15A	±2.5%	80mV	77.0%
HRP-75-5	5V, 0~15A	±2.5%	80mV	82.5%
HRP-75-7.5	7.5V, 0~10A	±2.5%	100mV	84.0%
HRP-75-12	12V, 0~6.3A	±1.5%	120mV	87.0%
HRP-75-15	15V, 0~5A	±1.5%	150mV	88.0%
HRP-75-24	24V, 0~3.2A	±1.5%	150mV	88.5%
HRP-75-36	36V, 0~2.1A	±1.5%	200mV	89.0%
HRP-75-48	48V, 0~1.6A	±1.5%	240mV	89.0%

■ 150W HRP□-150

Model No.	Output	Tol.	R&N	Effi.
HRP□-150-3.3	3.3V, 0~30A	±2.5%	80mV	78.5%
HRP□-150-5	5V, 0~26A	±2.5%	80mV	85.0%
HRP□-150-7.5	7.5V, 0~20A	±2.5%	100mV	87.0%
HRP□-150-12	12V, 0~13A	±1.5%	120mV	88.0%
HRP□-150-15	15V, 0~10A	±1.5%	150mV	88.0%
HRP□-150-24	24V, 0~6.5A	±1.5%	150mV	88.0%
HRP□-150-36	36V, 0~4.3A	±1.5%	200mV	89.0%
HRP□-150-48	48V, 0~3.3A	±1.5%	240mV	89.0%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W

■ 100W HRP-100

Model No.	Output	Tol.	R&N	Effi.
HRP-100-3.3	3.3V, 0~20A	+2.5%, -3.5%	80mV	78.0%
HRP-100-5	5V, 0~17A	±2.5%	80mV	83.0%
HRP-100-7.5	7.5V, 0~13.5A	±2.5%	100mV	84.0%
HRP-100-12	12V, 0~8.5A	±1.5%	120mV	87.5%
HRP-100-15	15V, 0~7A	±1.5%	150mV	88.0%
HRP-100-24	24V, 0~4.5A	±1.5%	150mV	88.5%
HRP-100-36	36V, 0~2.9A	±1.5%	200mV	89.0%
HRP-100-48	48V, 0~2.2A	±1.5%	240mV	90.0%

■ 200W HRP□-200

Model No.	Output	Tol.	R&N	Effi.
HRP□-200-3.3	3.3V, 0~40A	±2%	80mV	80.0%
HRP□-200-5	5V, 0~35A	±2%	90mV	84.0%
HRP□-200-7.5	7.5V, 0~26.7A	±2%	100mV	86.0%
HRP□-200-12	12V, 0~16.7A	±1%	120mV	88.0%
HRP□-200-15	15V, 0~13.4A	±1%	150mV	88.0%
HRP□-200-24	24V, 0~8.4A	±1%	150mV	88.0%
HRP□-200-36	36V, 0~5.7A	±1%	250mV	89.0%
HRP□-200-48	48V, 0~4.3A	±1%	250mV	89.0%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W



HRP-600
HRPG-600

HRP-450
HRPG-450

HRP-300
HRPG-300

Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Built-in remote sense function
- Built-in DC OK signal
- No load power consumption<0.5W (HRPG-300 / 450)
- No load power consumption<0.75W (HRPG-600)
- Built-in remote ON/OFF control & 5V / 0.3A standby output (HRPG series)
- **Built-in current sharing (HRPG-600-24 / 36 / 48)**
- Forced air cooling by built-in DC fan
- 1U low profile (HRP□-300 / 450)
- 100% full load burn-in test
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		HRP□-300	HRP□-450	HRP□-600
AC input voltage range		85~264VAC; 120~370VDC		
AC inrush current (max.)		Cold start, 70A at 230VAC		
DC adjustment range		±15% rated output voltage		
Overload Protection	Range	105%~135%		
	Type	Constant current limiting, auto-recovery		
Over voltage protection		115%~145%		
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute		
Working temperature		-40~+70℃ (refer to output derating curve)		
Safety standards		UL60950-1, TUV EN60950-1 approved		
EMC standards		EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN61000-6-2 heavy industry level		
Connection		7P/11mm pitch terminal block with cover	3+6P/10&11mm pitch terminal block with cover	
Dimension (LxWxH)(mm)		199x105x41	218x105x41	218x105x63.5
Case No.		980A	995A	977A

300W HRP□-300

Model No.	Output	Tol.	R&N	Effi.
HRP□-300-3.3	3.3V, 0~60A	±2.5%	80mV	80.0%
HRP□-300-5	5V, 0~60A	±2.0%	90mV	82.0%
HRP□-300-7.5	7.5V, 0~40A	±2.0%	100mV	86.0%
HRP□-300-12	12V, 0~27A	±1.0%	120mV	88.0%
HRP□-300-15	15V, 0~22A	±1.0%	150mV	88.0%
HRP□-300-24	24V, 0~14A	±1.0%	150mV	87.0%
HRP□-300-36	36V, 0~9A	±1.0%	250mV	88.0%
HRP□-300-48	48V, 0~7A	±1.0%	250mV	89.0%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W

600W HRP□-600

Model No.	Output	Tol.	R&N	Effi.
HRP□-600-3.3	3.3V, 0~120A	±2%	100mV	78.5%
HRP□-600-5	5V, 0~120A	±2%	100mV	82.0%
HRP□-600-7.5	7.5V, 0~80A	±2%	100mV	87.0%
HRP□-600-12	12V, 0~53A	±1%	120mV	88.0%
HRP□-600-15	15V, 0~43A	±1%	150mV	88.0%
HRP□-600-24	24V, 0~27A	±1%	150mV	88.0%
HRP□-600-36	36V, 0~17.5A	±1%	200mV	89.0%
HRP□-600-48	48V, 0~13A	±1%	240mV	89.0%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.75W

450W HRP□-450

Model No.	Output	Tol.	R&N	Effi.
HRP□-450-3.3	3.3V, 0~90A	±2%	80mV	80.0%
HRP□-450-5	5V, 0~90A	±2%	80mV	83.0%
HRP□-450-7.5	7.5V, 0~60A	±2%	100mV	86.5%
HRP□-450-12	12V, 0~37.5A	±1%	120mV	88.0%
HRP□-450-15	15V, 0~30A	±1%	150mV	89.0%
HRP□-450-24	24V, 0~18.8A	±1%	150mV	88.0%
HRP□-450-36	36V, 0~12.5A	±1%	240mV	89.0%
HRP□-450-48	48V, 0~9.5A	±1%	240mV	89.5%

□=blank, G; blank: basic function, G: with 5Vsb & no load <0.5W



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Features

- Universal AC input / Full range
- Medical safety approved (MOOP level)
- Low leakage current $\leq 300\mu A$ ($\leq 450\mu A$ for MSP-300)
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 1U low profile (MSP-100/200/300/450)
- Built-in constant current limiting circuit
- Built-in remote sense function (MSP-200/300/450/600)
- No load power consumption $< 0.5W$ ($< 0.6W$ for MSP-450 ; $< 0.8W$ for MSP-600)
- **Built-in current sharing (MSP-600-24/36/48)**
- Built-in remote ON/OFF control
- Built-in 5V/0.3A standby output (MSP-200/300/450/600)
- Built-in DC OK signal (MSP-300/450/600)
- LED indicator for power on
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		MSP-100	MSP-200	MSP-300	MSP-450	MSP-600
AC input voltage range		85~264VAC; 120~370VDC				
AC inrush current (max.)		Cold start, 65A at 230VAC	Cold start, 70A at 230VAC			Cold start, 80A at 230VAC
DC adjustment range		±15% rated output voltage				
Overload protection	Range	105%~135%				
	Type	Constant current limiting, auto-recovery				
Over voltage protection		115%~145%				
Withstand voltage		I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, 1 minute				
Working temperature		-40~+60°C	-40~+70°C (refer to output derating curve)			
Safety standards		ANSI/AAMI ES60601-1, IEC60601-1 approved				
EMC standards		EN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2				
Connection		7P / 9.5mm pitch terminal block with cover		7P / 11mm pitch terminal block with cover	3+6P / 10 &11mm pitch terminal block with cover	
Dimension (LxWxH)(mm)		159x 97x 38	199x 98x 38	199x 105x 41	218x 105x 41	218x 105x 63.5
Case No.		901I	902E	980A	995A	977A

100W MSP-100

Model No.	Output	Tol.	R&N	Effi.
MSP-100-3.3	3.3V, 0~20A	$\pm 2.5\%$, -3.5%	80mV	78.0%
MSP-100-5	5V, 0~17A	$\pm 2.5\%$, -3.5%	80mV	83.0%
MSP-100-7.5	7.5V, 0~13.5A	$\pm 2.5\%$	100mV	84.0%
MSP-100-12	12V, 0~8.5A	$\pm 1.5\%$	120mV	87.5%
MSP-100-15	15V, 0~7A	$\pm 1.5\%$	150mV	88.0%
MSP-100-24	24V, 0~4.5A	$\pm 1.5\%$	150mV	88.5%
MSP-100-36	36V, 0~2.9A	$\pm 1.5\%$	200mV	89.0%
MSP-100-48	48V, 0~2.2A	$\pm 1.5\%$	240mV	90.0%

200W MSP-200

Model No.	Output	Tol.	R&N	Effi.
MSP-200-3.3	3.3V, 0~40A	$\pm 2\%$	80mV	80.0%
MSP-200-5	5V, 0~35A	$\pm 2\%$	90mV	84.0%
MSP-200-7.5	7.5V, 0~26.7A	$\pm 2\%$	100mV	86.0%
MSP-200-12	12V, 0~16.7A	$\pm 1\%$	120mV	88.0%
MSP-200-15	15V, 0~13.4A	$\pm 1\%$	150mV	88.0%
MSP-200-24	24V, 0~8.4A	$\pm 1\%$	150mV	88.0%
MSP-200-36	36V, 0~5.7A	$\pm 1\%$	250mV	89.0%
MSP-200-48	48V, 0~4.3A	$\pm 1\%$	250mV	89.0%

300W MSP-300

Model No.	Output	Tol.	R&N	Effi.
MSP-300-3.3	3.3V, 0~60A	$\pm 2.5\%$	80mV	80.0%
MSP-300-5	5V, 0~60A	$\pm 2\%$	90mV	82.0%
MSP-300-7.5	7.5V, 0~40A	$\pm 2\%$	100mV	86.0%
MSP-300-12	12V, 0~27A	$\pm 1\%$	120mV	88.0%

Model No.	Output	Tol.	R&N	Effi.
MSP-300-15	15V, 0~22A	$\pm 1\%$	150mV	88.0%
MSP-300-24	24V, 0~14A	$\pm 1\%$	150mV	87.0%
MSP-300-36	36V, 0~9A	$\pm 1\%$	250mV	88.0%
MSP-300-48	48V, 0~7A	$\pm 1\%$	250mV	89.0%

450W MSP-450

Model No.	Output	Tol.	R&N	Effi.
MSP-450-3.3	3.3V, 0~90A	$\pm 2\%$	80mV	80.0%
MSP-450-5	5V, 0~90A	$\pm 2\%$	80mV	83.0%
MSP-450-7.5	7.5V, 0~60A	$\pm 2\%$	100mV	86.5%
MSP-450-12	12V, 0~37.5A	$\pm 1\%$	120mV	88.0%
MSP-450-15	15V, 0~30A	$\pm 1\%$	150mV	89.0%
MSP-450-24	24V, 0~18.8A	$\pm 1\%$	150mV	88.0%
MSP-450-36	36V, 0~12.5A	$\pm 1\%$	240mV	89.0%
MSP-450-48	48V, 0~9.5A	$\pm 1\%$	240mV	89.5%

600W MSP-600

Model No.	Output	Tol.	R&N	Effi.
MSP-600-3.3	3.3V, 0~120A	$\pm 2\%$	100mV	78.5%
MSP-600-5	5V, 0~120A	$\pm 2\%$	100mV	82.0%
MSP-600-7.5	7.5V, 0~80A	$\pm 2\%$	100mV	86.0%
MSP-600-12	12V, 0~53A	$\pm 1\%$	120mV	88.0%
MSP-600-15	15V, 0~43A	$\pm 1\%$	150mV	88.0%
MSP-600-24	24V, 0~27A	$\pm 1\%$	150mV	88.0%
MSP-600-36	36V, 0~17.5A	$\pm 1\%$	200mV	89.0%
MSP-600-48	48V, 0~13A	$\pm 1\%$	240mV	89.0%



■ Features

- Universal AC input / Full range
- Built-in active PFC
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Output wattage:
 - USP-150: 150W convection
 - USP-225: 150W convection, 225W with 18CFM forced air
 - USP-350: 300W convection, 350W with 23.5CFM forced air
 - USP-500: 400W convection, 500W with 23.5CFM forced air
- High power density: 5.5W/in³ (USP-150); 4.7W/in³ (USP-225); 6.32W/in³ (USP-350); 6.2W/in³ (USP-500)
- U-bracket low profile: 33mm(USP-150); 38mm(USP-225/300); 41mm(USP-500)
- Built-in remote ON/OFF control, remote sense, DC OK signal (USP-500)
- **Optional current sharing(1+1) for USP-500-24/48**
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		USP-150	USP-225	USP-350	USP-500
AC input voltage range		90~295VAC; 127~417VDC		90~264VAC; 127~370VDC	
AC inrush current (max.)		Cold start, 65A at 230VAC	15A at 115VAC, 35A at 230VAC	22A at 115VAC, 44A at 230VAC	30A at 115VAC, 50A at 230VAC
DC adjustment range		±10% rated output voltage			
Overload protection	Range	110%~160%	105%~150%	105%~130%	
	Type	Hiccup mode, auto-recovery	Constant current limiting, auto-recovery		Constant current, shut off after 3 sec.
Over voltage protection	Range	110%~135%	110%~135%	110%~140%	115%~135%
	Type	Shut off, AC recycle to re-start		Hiccup mode, auto-recovery	Shut off, AC recycle to re-start
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature		-30~+65°C	-20~+65°C	-10~+65°C	-20~+70°C
Vibration		10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
Safety standards		UL60950-1, TUV EN60950-1(except for USP-150) approved			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Connection		JST: SVH-21T-P1.1, 4P/7.62mm pitch terminal block	20P/2.54mm pitch, Molex 39-29-9206	5+9P/2/3.96mm pitch, JST: B5P/B9P/2-VH	3+8P/8.5mm pitch terminal block with cover
Dimension (LxWxH)(mm)		215x 67.4x 33	202x 101.5x 38	235.2x 101.5x 38	254x 127x 41

■ USP-150 Series



Model No.	Output	Tol.	R&N	Effi.
USP-150-12	12V, 0~12.5A	±2%	100mV	91.5%
USP-150-15	15V, 0~10.0A	±2%	150mV	91.5%
USP-150-24	24V, 0~6.30A	±2%	150mV	93.0%
USP-150-36	36V, 0~4.20A	±2%	250mV	93.0%
USP-150-48	48V, 0~3.20A	±2%	250mV	93.0%

■ USP-350 Series



Model No.	Output	Tol.	R&N	Effi.
USP-350-3.3	3.3V, 0~70.0A	±2%	80mV	78%
USP-350-5	5V, 0~70.0A	±2%	80mV	84%
USP-350-12	12V, 0~29.2A	±2%	100mV	88%
USP-350-15	15V, 0~23.4A	±2%	100mV	88%
USP-350-24	24V, 0~14.6A	±2%	150mV	88%
USP-350-48	48V, 0~7.30A	±2%	150mV	89%

■ USP-225 Series



Model No.	Output	Tol.	R&N	Effi.
USP-225-3.3	3.3V, 0~40.0A	±2%	100mV	72%
USP-225-5	5V, 0~40.0A	±2%	100mV	77%
USP-225-12	12V, 0~18.7A	±2%	100mV	83%
USP-225-15	15V, 0~15.0A	±2%	100mV	84%
USP-225-24	24V, 0~9.40A	±2%	150mV	85%
USP-225-48	48V, 0~4.70A	±2%	250mV	86%

■ USP-500 Series



Model No.	Output	Tol.	R&N	Effi.
USP-500-5	5V, 0~80.0A	±2%	80mV	85%
USP-500-12	12V, 0~42.0A	±2%	100mV	90%
USP-500-15	15V, 0~33.5A	±2%	100mV	90%
USP-500-24	24V, 0~21.0A	±2%	150mV	89%
USP-500-48	48V, 0~10.5A	±2%	150mV	90%



Features

- Universal AC input / Full range
- Installed on DIN rail TS-35 / 7.5 or 15
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.75W (<1W for MDR-100)
- LED indicator for power on
- Built-in active PFC and over temp. protection (MDR-100)
- Class I, Div 2 Hazardous Locations T4(MDR-40/60)
- DC OK signal output (MDR-10/20)
- DC OK relay contact (MDR-40/60/100)
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	MDR-10	MDR-20	MDR-40	MDR-60	MDR-100
AC input voltage range	85~264VAC; 120~370VDC				
AC inrush current	Cold start, 35A at 115VAC, 70A at 230VAC	Cold start, 20A at 115VAC, 40A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	Fixed	±10% rated output voltage	0~+20% rated output voltage		
Overload protection	>105% hiccup mode, auto-recovery	105%~160% constant current limiting, auto-recovery	105%~150% constant current limiting, auto-recovery		
Over voltage protection	115%~135% rated output voltage		125%~150% rated output voltage		
Setup, rise, hold up time	500ms, 30ms, 120ms	500ms, 30ms, 50ms			3000ms, 50ms, 50ms
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, 1minute				
Working temperature	-20~+70°C (refer to output derating curve)				-10~+60°C
DC OK signal	Open collector	Open collector	Relay contact		
Safety standards	UL508, TUV EN60950-1 approved; MDR-40/60 also approved for UL60950-1, ANSI/ISA 12.12.01-2013 Class I, Div. 2 Group A, B, C, D Hazardous Locations T4				
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level (MDR-40/60/100)				
Connection	I/P: 3 poles, O/P: 3 poles screw DIN terminal		IP: 3 poles, O/P: 6 poles screw DIN terminal		
Dimension (WxHxD)(mm)	22.5x90x100		40x90x100		55x90x100
Packing	72pcs / 13.2kg	72pcs / 14.7kg	42pcs / 13.6kg	42pcs / 14.8kg	30pcs / 13.6kg

MDR-10 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-10-5	5V, 0~2.0A	±5%	80mV	77%
MDR-10-12	12V, 0~0.84A	±3%	120mV	81%
MDR-10-15	15V, 0~0.67A	±3%	120mV	81%
MDR-10-24	24V, 0~0.42A	±2%	150mV	84%

MDR-20 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-20-5	5V, 0~3.0A	±2%	80mV	76%
MDR-20-12	12V, 0~1.67A	±1%	120mV	80%
MDR-20-15	15V, 0~1.34A	±1%	120mV	81%
MDR-20-24	24V, 0~1.00A	±1%	150mV	84%

MDR-40 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-40-5	5V, 0~6.00A	±2%	80mV	78%
MDR-40-12	12V, 0~3.33A	±1%	120mV	86%
MDR-40-24	24V, 0~1.70A	±1%	150mV	88%
MDR-40-48	48V, 0~0.83A	±1%	200mV	88%

MDR-60 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-60-5	5V, 0~10.0A	±2%	80mV	78%
MDR-60-12	12V, 0~5.00A	±1%	120mV	86%
MDR-60-24	24V, 0~2.50A	±1%	150mV	88%
MDR-60-48	48V, 0~1.25A	±1%	200mV	87%

MDR-100 Series



Model No.	Output	Tol.	R&N	Effi.
MDR-100-12	12V, 0~7.5A	±1%	120mV	83%
MDR-100-24	24V, 0~4.0A	±1%	150mV	86%
MDR-100-48	48V, 0~2.0A	±1%	200mV	87%



Energy Saving —

We care about energy saving. This logo represents that this model has "low no load power consumption"!



To satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service



■ Features

- Isolation Class II
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Over temperature protection (DR-100)
- No load power consumption<1W (DR-100)
- No load power consumption<0.5W (DR-15)
- Installed on DIN rail TS-35 / 7.5 or 15
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty
- Suitable for building automation and control of household appliance

■ General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		DR-15 	DR-30	DR-60	DR-100 
AC input voltage range		85~264VAC; 120~370VDC			88~264VAC; 124~370VDC
AC inrush current (max.)		Cold start, 65A at 230VAC	Cold start, 30A at 230VAC	Cold start, 36A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range		±10% rated output voltage			
Overload protection	Range	105%~160%			
	Type	constant current limiting, auto-recovery			
Over voltage protection	Range	115%~135% rated output voltage			
	Type	Shut off, clamp by zener diode	Shut down, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC			
Working temperature		-20~+60°C (refer to output load derating curve)			
Vibration		10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes			
Safety standards		UL60950-1, TUV60950-1 approved			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, EN61204-3			
Connection		I/P and O/P: 2 poles screw DIN terminal	I/P: 2 poles, O/P: 4 poles screw DIN terminal		
Dimension (WxHxD)(mm)		25x93x56	78x93x56	78x93x56	100x93x56
Case No.		985A	918B	918B	970A
Packing		140pcs / 15.0kg	48pcs / 14.0kg	48pcs / 15.4kg	36pcs / 13.6kg

■ 15W DR-15

Model No.	Output	Tol.	R&N	Effi.
DR-15-5	5V, 0~2.40A	±2%	80mV	77.0%
DR-15-12	12V, 0~1.25A	±1%	120mV	84.0%
DR-15-15	15V, 0~1.00A	±1%	120mV	83.5%
DR-15-24	24V, 0~0.63A	±1%	150mV	85.0%

■ 30W DR-30

Model No.	Output	Tol.	R&N	Effi.
DR-30-5	5V, 0~3.0A	±2%	80mV	74%
DR-30-12	12V, 0~2.0A	±1%	120mV	81%
DR-30-15	15V, 0~2.0A	±1%	120mV	82%
DR-30-24	24V, 0~1.5A	±1%	150mV	83%

■ 60W DR-60

Model No.	Output	Tol.	R&N	Effi.
DR-60-5	5V, 0~6.5A	±2%	80mV	76%
DR-60-12	12V, 0~4.5A	±1%	120mV	82%
DR-60-15	15V, 0~4.0A	±1%	120mV	83%
DR-60-24	24V, 0~2.5A	±1%	150mV	84%

■ 100W DR-100

Model No.	Output	Tol.	R&N	Effi.
DR-100-12	12V, 0~7.5A	±2%	120mV	87%
DR-100-15	15V, 0~6.5A	±1%	120mV	87%
DR-100-24	24V, 0~4.2A	±1%	150mV	89%



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■ Features

- Universal AC input / Full range (DR-45/75, DRP-240)
AC input selectable by switch (DR-120, DRP-480S)
AC input 180~264VAC only (DRP-480)
- Built-in active PFC function (DRP-240)
- Built-in passive PFC function compliance to EN61000-3-2 (480W models)
- Protections: Short circuit / Overload /
Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		DR-45	DR-75	DR-120	DRP-240	DRP-480	DRP-480S
AC input voltage range		85~264VAC(DR-45/75, DRP-240); 90~132/180~264VAC selectable by switch (DR-120, DRP-480S); 180~264VAC only (DRP-480)					
AC inrush current (230VAC)		56A	40A	40A	45A	40A	45A
DC adjustment range		±10%	12V: 12~14V, 24V: 24~28V, 48V: 48~53V				
Overload protection		105%~150% constant current limiting, auto-recovery					
Over voltage protection	Range	115%~142% rated output voltage			30~36V for 24V model, 54~60V for 48V model		
	Type	Shut off, AC recycle to re-start					
Over temp. protection		Shut down output voltage, recovers automatically after temperature goes down (DRP-240, re-power on to recover)					
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute					
Working temperature		-10~+50°C	-10~+60°C		-10~+70°C	-20~+70°C	
Safety standards		UL508, TUV EN60950-1 approved (UL60950-1 also for DR-120, DRP-240, DRP-480, DRP-480S)					
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level					
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal					
Dimension (WxHxD)(mm)		78x93x67	55.5x125.2x100	65.5x125.2x100	125.5x125.2x100	227x125.2x100	
Case No.		918A	923	921A	922A	930	
Packing		48pcs / 17.5kg	20pcs / 13.0kg	20pcs / 16.5kg	12pcs / 15.5kg	6pcs / 15.0kg	6pcs / 16.6kg

■ DR-45 Series



Model No.	Output	Tol.	R&N	Effi.
DR-4505	5V, 0~5.0A	±2%	100mV	72%
DR-4512	12V, 0~3.5A	±1%	200mV	77%
DR-4515	15V, 0~2.8A	±1%	240mV	77%
DR-4524	24V, 0~2.0A	±1%	480mV	80%

■ DR-75 Series



Model No.	Output	Tol.	R&N	Effi.
DR-75-12	12V, 0~6.3A	±2%	100mV	76%
DR-75-24	24V, 0~3.2A	±1%	150mV	80%
DR-75-48	48V, 0~1.6A	±1%	240mV	81%

■ DR-120 Series



Model No.	Output	Tol.	R&N	Effi.
DR-120-12	12V, 0~10A	±2%	80mV	80%
DR-120-24	24V, 0~5.0A	±1%	80mV	84%
DR-120-48	48V, 0~2.5A	±1%	100mV	85%

■ DRP-240 Series



Model No.	Output	Tol.	R&N	Effi.
DRP-240-24	24V, 0~10A	±1%	80mV	84%
DRP-240-48	48V, 0~5.0A	±1%	150mV	85%

■ DRP-480 Series



Model No.	Output	Tol.	R&N	Effi.
DRP-480-24	24V, 0~20A	±1%	120mV	89%
DRP-480-48	48V, 0~10A	±1%	120mV	89%

■ DRP-480S Series



Model No.	Output	Tol.	R&N	Effi.
DRP-480S-24	24V, 0~20A	±1%	120mV	89%
DRP-480S-48	48V, 0~10A	±1%	120mV	89%



Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.



■ Features

- Input 340~550VAC, 3-phase
(two phase for DRH-120)
- Protections: Short circuit / Overload /
Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
(240~960W)
- EN61000-6-2 industrial immunity level
- Optional parallel function (1+1) (960W only)
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		DRH-120	DRT-240	DRT-480	DRT-960
AC input voltage range		340~550VAC, two phase	340~550VAC, 3-phase (two phase operation possible)		
AC inrush current (max.)		Cold start, 50A at 400VAC			
DC adjustment range		24V: 24~28V, 48V: 48~55V			
Overload protection	Range	105%~160%	105%~150%		105%~125%
	Type	Constant current limiting, auto-recovery			Constant current limiting, delay shut off after 3 sec.
Over voltage protection	Range	24V: 30~36V, 48V: 59~66V			
	Type	Shut off, AC recycle to re-start			
Over temperature protection		Shut down output voltage, recovers automatically after temperature goes down			
Withstand voltage		I/P - O/P: 3kVAC, I/P - FG: 1.5kVAC, O/P - FG: 0.5kVAC, 1 minute			
Working temperature		-20~+60°C	-20~+70°C		-20~+60°C
Safety standards		UL60950-1 approved	UL508, UL60950-1, TUV EN60950-1 approved		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level			
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles	I/P: 4 poles, O/P: 4 poles		I/P: 4 poles, O/P: 6 poles
Dimension (WxHxD)(mm)		65.5x125.2x100	125.5x125.2x100	227x125.2x100	276x125.2x100
Case No.		921A	922A	930A	934
Packing		20pcs / 16.0kg	12pcs / 16.6kg	6pcs / 16.0kg	4pcs / 14.2kg

■ DRH-120 (Two Phase)



Model No.	Output	Tol.	R&N	Effi.
DRH-120-24	24V, 0~5.0A	±1%	80mV	85%
DRH-120-48	48V, 0~2.5A	±1%	80mV	86%

■ DRT-480 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-480-24	24V, 0~20A	±1%	80mV	89%
DRT-480-48	48V, 0~10A	±1%	80mV	90%

■ DRT-240 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-240-24	24V, 0~10A	±1%	80mV	89%
DRT-240-48	48V, 0~5.0A	±1%	80mV	89%

■ DRT-960 (Three Phase)



Model No.	Output	Tol.	R&N	Effi.
DRT-960-24	24V, 0~40A	±1%	80mV	91%
DRT-960-48	48V, 0~20A	±1%	80mV	92%



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48hrs delivery—

We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.



Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- Low cost
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		EDR-75	EDR-120	EDR-150
AC input voltage range		90~264VAC; 127~370VDC		
AC inrush current (max.)		Cold start, 35A at 230VAC		
DC adjustment range		12V: 12~14V, 24V: 24~28V, 48V: 48~55V		
Overload protection	Range	105%~130%		
	Type	Constant current limiting, auto-recovery		
Over voltage protection	Range	12V: 14~17V, 24V: 29~33V, 48V: 56~65V		24V: 29~33V
	Type	Shut down o/p voltage, re-power on to recover		
Over temperature protection		Shut down o/p voltage, re-power on to recover		
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature		-20~+60°C (refer to output derating curve)		
Safety standards		UL508, TUV EN60950-1 approved		
EMC standards		EN55022 classA, EN61000-3-2(125W for EDR-150),3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2)		
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles		
Dimension (WxHxD)(mm)		32x 125.2x 102	40x 125.2x 113.5	
Case No.		221B	992D	
Packing		28pcs / 15.3kg	20pcs / 13kg	

75W EDR-75

Model No.	Output	Tol.	R&N	Effi.
EDR-75-12	12V, 0~6.3A	±2.0%	100mV	85.5%
EDR-75-24	24V, 0~3.2A	±1.0%	120mV	87.5%
EDR-75-48	48V, 0~1.6A	±1.0%	150mV	88.5%

120W EDR-120

Model No.	Output	Tol.	R&N	Effi.
EDR-120-12	12V, 0~10A	±2.0%	100mV	85.0%
EDR-120-24	24V, 0~5A	±1.0%	120mV	87.5%
EDR-120-48	48V, 0~2.5A	±1.0%	150mV	88.5%

150W EDR-150

Model No.	Output (230VAC/115VAC)	Tol.	R&N	Effi.
EDR-150-24	24V, 0~6.5A / 0~5.2A	±1.0%	150mV	87%



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48hrs delivery—

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■ Features

- Universal AC input / Full range
- Built-in active PFC function(NDR-240/480)
- High efficiency up to 93%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (industrial control equipment) listed
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- Low cost
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		NDR-75	NDR-120	NDR-240	NDR-480
AC input voltage range		90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 35A at 230VAC			
DC adjustment range		12V: 12~14V, 24V: 24~28V, 48V: 48~55V			
Overload protection	Range	105%~130%			
	Type	Constant current limiting, auto-recovery			Constant current limiting, shut off after 3 sec., re-power on to recover
Over voltage protection	Range	12V: 14~17V, 24V: 29~33V, 48V: 56~65V			
	Type	Shut down o/p voltage, re-power on to recover			
Over temperature protection		Shut down o/p voltage, re-power on to recover		Shut down o/p voltage, auto-recovery	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			
Working temperature		-20~+70°C (refer to output derating curve)			
Safety standards		UL508, TUV EN60950-1 approved			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2), EN61204-3			
Connection (screw DIN terminal)		I/P: 3 poles, O/P: 4 poles			
Dimension (WxHxD)(mm)		32x 125.2x 102	40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5
Case No.		221B	992D	979C	984D
Packing		28pcs / 15.3kg	20pcs / 13kg	12pcs / 13kg	8pcs / 15.4kg

■ NDR-75 Series



Model No.	Output	Tol.	R&N	Effi.
NDR-75-12	12V, 0~6.3A	±2.0%	100mV	85.5%
NDR-75-24	24V, 0~3.2A	±1.0%	150mV	88.0%
NDR-75-48	48V, 0~1.6A	±1.0%	240mV	89.0%

■ NDR-240 Series



Model No.	Output	Tol.	R&N	Effi.
NDR-240-24	24V, 0~10A	±1.0%	150mV	88%
NDR-240-48	48V, 0~5A	±1.0%	150mV	89%

■ NDR-120 Series



Model No.	Output	Tol.	R&N	Effi.
NDR-120-12	12V, 0~10A	±2.0%	100mV	85.5%
NDR-120-24	24V, 0~5A	±1.0%	120mV	88.0%
NDR-120-48	48V, 0~2.5A	±1.0%	150mV	89.0%

■ NDR-480 Series



Model No.	Output	Tol.	R&N	Effi.
NDR-480-24	24V, 0~20A	±1.0%	150mV	93%
NDR-480-48	48V, 0~10A	±1.0%	150mV	93%



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Products —

- One Stop Shopping
- Total Solution



SDR-75 SDR-120 SDR-240 SDR-480P SDR-960

Features

- High efficiency up to 94%
- Universal AC input / Full range (SDR-75/120/240/480)
AC input 180~264VAC only (SDR-960)
- Built-in active PFC function (SDR-120/240/480/960)
- Protections: Short circuit / Overload /
Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact (except for SDR-75)
- 150% peak load capability (SDR-75/120/240/480)
130% peak load capability (SDR-960)
- **Current sharing up to 3840W (7+1) for SDR-480P**
Current sharing up to 3840W (3+1) for SDR-960
- Comply with GL (SDR-120/240/480)
- Comply with SEMI F47 (SDR-75/120/240/480)
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		SDR-75	SDR-120	SDR-240	SDR-480□	SDR-960
AC input voltage range		88~264VAC; 124~370VDC			90~264VAC; 127~370VDC	180~264VAC; 254~370VDC
AC inrush current (max.)		Cold start, 50A at 230VAC	Cold start, 70A at 230VAC	Cold start, 65A at 230VAC	Cold start, 80A at 230VAC	Cold start, 50A at 230VAC
DC adjustment range		12V: 12~14V (only for SDR-75/120), 24V: 24~28V, 48V: 48~55V				
Overload protection		Normally works within 110%~150% rated output power for 3 seconds and then shut down output voltage with auto-recovery (re-power on to recover for SDR-75)				Normally works within 105%~130% rated output power for 3 seconds and then shut down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed
		>150% rated power or short circuit, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds				Constant current limiting within 130%~150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover
Over voltage protection	Range	14~17V for 12V model(SDR-75/120), 29~33V for 24V model, 56~65V for 48V model				
	Type	Shut down o/p voltage, re-power on to recover		Shut down o/p voltage with auto-recovery, or re-power on to recover		
Over temperature protection		Re-power on to recover	Recovers automatically after temperature goes down			
Withstand voltage		I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC, O/P-DC OK:0.5kVAC (except for SDR-75)				
Working temperature		-30~+70°C	-25~+70°C (refer to output derating curve)			-30~+70°C
Safety standards		UL508, TUV EN60950-1, GL (SDR-120/240/480) approved				
EMC standards		EN55011(SDR-120/240/480), EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3; SEMI (SDR-75/120/240/480), GL (SDR-120/240/480)				
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal		I/P: 3 poles, O/P: 6 poles screw DIN terminal	I/P: 3 poles, O/P: 8 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal
Dimension (WxHxD)(mm)		32x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5	110x125.2x150

SDR-75 Series



Model No.	Output	Tol.	R&N	Effi.
SDR-75-12	12V, 0~6.3A	±1.0%	100mV	88.5%
SDR-75-24	24V, 0~3.2A	±1.0%	100mV	89.0%
SDR-75-48	48V, 0~1.6A	±1.0%	120mV	90.0%

SDR-120 Series



Model No.	Output	Tol.	R&N	Effi.
SDR-120-12	12V, 0~10A	±1.0%	100mV	89.0%
SDR-120-24	24V, 0~ 5A	±1.0%	100mV	91.0%
SDR-120-48	48V, 0~2.5A	±1.0%	120mV	90.5%

SDR-240 Series



Model No.	Output	Tol.	R&N	Effi.
SDR-240-24	24V, 0~10A	±1.0%	100mV	94%
SDR-240-48	48V, 0~5A	±1.0%	120mV	94%

SDR-480 Series



Model No.	Output	Tol.	R&N	Effi.
SDR-480□-24	24V, 0~20A	±1.2%	100mV	94%
SDR-480□-48	48V, 0~10A	±1.0%	120mV	94%

□ =blank, P ; Blank: basic function, P: with parallel function

SDR-960 Series



Model No.	Output	Tol.	R&N	Effi.
SDR-960-24	24V, 0~40A	±1.0%	180mV	94%
SDR-960-48	48V, 0~20A	±1.0%	250mV	94%



■ Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC (WDR-240/480)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.		WDR-120	WDR-240	WDR-480
AC input voltage range		180~550VAC(single and two phase); 254~780VDC		
AC input current		0.55A / 400VAC, 1.2A / 230VAC	1A / 400VAC, 2A / 230VAC	1.6A / 400VAC, 4A / 230VAC
AC inrush current (max.)		Cold start, 50A at 400VAC		
DC adjustment range		12V: 12~15V, 24V: 24~29V, 48V: 48~58V	24V: 24~28V, 48V: 48~55V	
Overload protection		105%~130% rated output power, constant current limiting, auto-recovery	105%~130% rated output power, constant current limiting, unit will shut down after 3 sec.; auto-recovery after 1 minute if the fault condiction is removed.	
Over voltage protection	Range	16~18V for 12V model (only for WDR-120), 29~33V for 24V model, 56~65V for 48V model		
	Type	Shut down o/p voltage, auto-recovery	Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed	
Setup, rise, hold up time		2000ms, 70ms, 10ms at full load and 230VAC; 2000ms, 70ms, 50ms at full load and 400VAC	1500ms, 150ms, 18ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC	2000ms, 150ms, 16ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC
Over temp. protection		Shut down output voltage, recovers automatically after temperature goes down		
Withstand voltage		I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC, O/P-DC OK:0.5kVAC, 1 minute		
Isolation resistance		100MΩ(min.)@500VDC		
Working temperature		-25~+70°C (refer to output derating curve)	-30~+70°C (refer to output derating curve)	
DC OK signal		Relay Contact		
Leakage current		<3.5mA at 530VAC		
Vibration		10~500Hz, 2G 10 minutes / 1 cycle, period of 60 minutes each along X, Y, Z axes		
Safety standards		UL508 approved ; IEC60950-1 CB approved by SIQ ; Design refer to GL		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level		
Connection		I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal	
Dimension (WxHxD)(mm)		40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5
Packing		20pcs / 14kg	12pcs / 13.7kg	8pcs / 14.6kg

■ WDR-120 Series



Model No.	Output	Tol.	R&N	Effi.
WDR-120-12	12V, 0~10A	±1.5%	120mV	89.5%
WDR-120-24	24V, 0~5A	±1.0%	120mV	91%
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92%

■ WDR-240 Series



Model No.	Output	Tol.	R&N	Effi.
WDR-240-24	24V, 0~10A	±1.0%	150mV	91%
WDR-240-48	48V, 0~5A	±1.0%	150mV	91%

■ WDR-480 Series



Model No.	Output	Tol.	R&N	Effi.
WDR-480-24	24V, 0~20A	±1.0%	100mV	92%
WDR-480-48	48V, 0~10A	±1.0%	150mV	93%



Customer Satisfaction —

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- High Quality
- Low Cost
- Prompt Delivery
- Best Service

960W High Input Voltage

- Input 340~550VAC, 3-phase
- **Width only 110mm**
- Built-in active PFC function
- **High efficiency up to 94.5%**
- Protections:
Short circuit / Overload /
Over voltage / Over temp.
- Cooling by free air convection
- Installed on DIN rail TS-35 / 7.5 or 15
- EN61000-6-2(EN50082-2) industrial immunity level
- Current sharing up to 3840W (3+1)
- Built-in DC OK relay contact
- 3 years warranty



AC input voltage range	340~550VAC, 3-phase (2-phase operation possible)
AC input current (Typ.).....	2A / 400VAC, 1.4A / 500VAC
AC inrush current	Cold start, 60A at 400VAC
DC adjustment range	24V: 24~28V, 48V: 48~55V
Overload protection	105%~130% rated output power, constant current limiting, unit will shut down after 3 sec., re-power on to recover
Over voltage protection	29~33V (24V model), 56~65V (48V model), shut down o/p voltage, re-power on to recover
Over temperature.....	Shut down o/p voltage, recovers automatically after temperature goes down
Withstand voltage.....	I/P-O/P: 3kVAC I/P-FG: 2kVAC O/P-FG: 0.5kVAC, O/P-DC OK: 0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards.....	UL508 approved; IEC60950-1 CB approved by SIQ
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level
Connection	I/P: 3 poles, O/P: 6 poles screw DIN terminal

Model No.	Output	Tol.	R&N	Effi.
TDR-960-24	24V, 0~40A	±1.0%	180mV	94.0%
TDR-960-48	48V, 0~20A	±1.0%	250mV	94.5%

40 & 60W Output Current Programmable

- Universal AC input / Full range
- **Io can be trimmed 10~100% by 1~10Vdc, PWM signal or resistance**
- Installed on DIN rail TS-35 / 7.5 or 15
- Protections:
Short circuit / Overload /
Over voltage
- Pass LPS
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- **Suitable for machine vision inspection system and plant cultivation application**
- 3 years warranty



AC input voltage range	90~264VAC; 127~370VDC
AC inrush current	Cold start, 60A at 230VAC
DC adjustment range	12V: 12~15V, 24V: 24~30V
Current adjustment range	10%~100% rated output current adjustable by 1~10Vdc, PWM signal or resistance
Overload protection	95%~108% rated output power, constant current limiting, auto-recovery
Over voltage protection.....	120%~155% rated output power, shut down o/p voltage, re-power on to recover
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3
Connection	I/P: 3 poles, O/P: 6 poles screw DIN terminal

✦ DRA-40 Series

Model No.	Output	Tol.	R&N	Effi.
DRA-40-12	12V, 0~3.34A	±1.0%	120mV	85%
DRA-40-24	24V, 0~1.7A	±1.0%	150mV	87%

✦ DRA-60 Series

Model No.	Output	Tol.	R&N	Effi.
DRA-60-12	12V, 0~5A	±1.0%	120mV	85%
DRA-60-24	24V, 0~2.5A	±1.0%	150mV	87%



We provide specification, drawing, test report and more information, please visit our website — <http://www.meanwell.com>



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20A Power Supply Redundancy Module

- Suitable for redundant operation of 24V system
- Installed on DIN rail TS-35 / 7.5 or 15
- Relay contact signal output and LED indicator for input failure alarm
- Cooling by free air convection
- 3 years warranty



DC input voltage range21~28V, 20A max. x 2 channels
 Reverse voltage 30V
 DC output current 20A max.
 DC output voltage drop 0.6V max.
 Input voltage alarm When input is > 20V(±5%) and <30V(±5%), relay contacts
 Relay contact rating 30VDC, 1A
 Working temperature -40~+70°C
 Safety standard UL508 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11
 Connection I/P: 4 poles, O/P: 2 poles screw DIN terminal,
 Single output: 4 poles

Model No.	Output	Reverse Voltage	Current
DR-RDN20	24V, 20A	30V max.	20A max.

► Feature Description

DR-RDN20 is a 20A redundancy (decoupling) module for the 24VDC power system. Containing 2 sets of 20A Or-ing diodes with wonderful heat dissipation deployment, DR-RDN20 offers a safe option of 1+1 redundant set-up. Not only perfectly decouple power sources from each other as well as from the load, DR-RDN-20 also provides users monitoring signals for both input channels through the built-in relays.

DR-UPS40 is a 40A max. DC UPS (battery control) module for the 24VDC power system. Accompany with external batteries, it can back-up up to 40A of current to critical loads for certain period of time depending on the capacity of batteries. With complete monitoring signals / LED indicators for DC BUS OK, Battery Fail, Battery Discharge, and the repeated Battery Test function to check the situation of external batteries, users can customize their own DC UPS system to back up critical loads and capture the status of the whole system easily.

40A DC UPS Module

- Battery controller for DIN rail UPS system
- Parallel connected to DC BUS
- Suitable for 24V system up to 40A
- Installed on DIN Rail TS-35 / 7.5 or 15
- Built-in battery test function
- Battery polarity protection
- Relay contact signal output and LED indicator for DC BUS OK, Battery Fail, and Battery Discharge
- Cooling by free air convection
- 3 years warranty

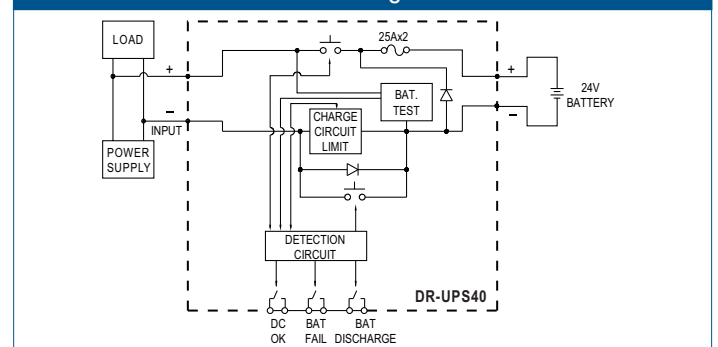


DC input / DC bus 24~29V, 40A max.
 Battery input voltage 21~29V
 Battery input Current 0~40A
 Charge current (typ.) 2A
 External battery (typ.) 24V, 4AH / 7AH / 12AH
 DC bus ok Relay status : Short when DC voltage between 21~29V(±3%), relay contacts
 LED(Green) : DC bus OK : light;
 DC bus fail : dark
 Battery fail Relay status : Short when battery failure is observed through the battery test function, relay contacts
 LED(Red) : Battery over-discharge warning or battery broken: light;
 Battery OK: dark
 Battery discharge Relay status : Short when battery in discharge condition, relay contacts
 LED(Yellow) : Battery discharging: light;
 Battery is not discharging or discharging current <2A: dark

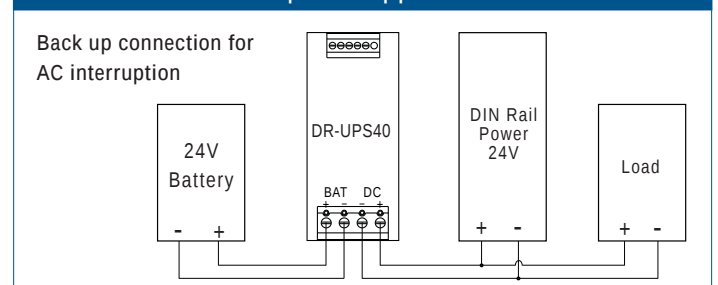
Working temperature -20~+70°C
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11
 Connection I/P: 2 poles, O/P: 2 poles screw DIN terminal,
 Single output: 6 poles

Model No.	DC BUS Voltage	DC BUS Current
DR-UPS40	24~29V	40A max.

Block Diagram



Example of Application



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- Low Cost
- Prompt Delivery
- Best Service

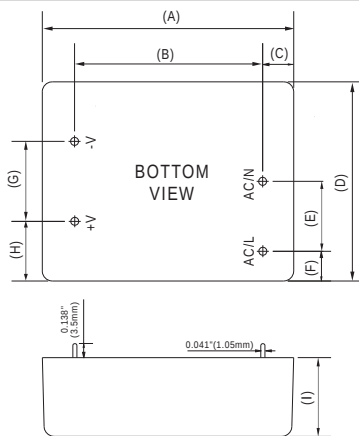


Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage
- Low leakage current < 300μA (20W)
- No load power consumption <0.5W (<0.75W for 20W models)
- Fully isolated plastic case
- Isolation class II (5~15W)
- Cooling by free air convection
- Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty

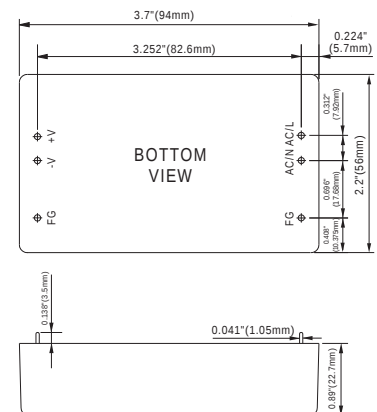


PM-05 / 10 / 15 Series



	5W	10W	15W
A	2.475" (62.85mm)	2.76" (70mm)	2.95" (75mm)
B	1.85" (47mm)	2.13" (54mm)	2.441" (62mm)
C	0.306" (7.8mm)	0.315" (8mm)	0.256" (6.5mm)
D	1.97" (50mm)	1.97" (50mm)	2.09" (53mm)
E	0.689" (17.5mm)	0.689" (17.5mm)	0.788" (20mm)
F	0.295" (7.5mm)	0.295" (7.5mm)	0.256" (6.5mm)
G	0.789" (20.04mm)	0.789" (20.04mm)	0.906" (23.01mm)
H	0.59" (15mm)	0.59" (15mm)	0.59" (15mm)
I	0.776" (19.7mm)	0.89" (22.7mm)	0.89" (22.7mm)

PM-20 Series



General Specification

AC input voltage range 85~264VAC; 120~370VDC

Frequency range 47~440Hz

AC inrush current (max.) ... Cold start, 25A at 115VAC, 45A at 230VAC
(PM-15: 30A at 115VAC, 50A at 230VAC)
(PM-20: 30A at 115VAC, 65A at 230VAC)

Overload protection >105% hiccup mode, auto recovery

Over voltage protection 115%~135% rated output voltage, shut off,
AC recycle to re-start

Setup, rise, hold up time ... PM-5/15: 1000ms, 20ms, 100ms @ 230VAC
PM-10: 1800ms, 20ms, 100ms @ 230VAC
PM-20: 500ms, 20ms, 50ms @ 230VAC

Withstand voltage I/P-O/P: 4kVAC, 1 minute

Working temperature PM-5/10/15: -20~+70°C
PM-20: -20~+60°C

Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1,
UL60950-1 (PM-15) approved

EMC standards EN55011, EN55022 class B, EN61000-3-2,3
EN61000-4-2,3,4,5,6,8,11, EN55024,
EN60601-1-2, EN61204-3 Medical level, criteria A

Connection 4 industrial pins (20W: 6 industrial pins)

Packing 0.085kg ; 120pcs / 11.2kg / 0.97CUFT(PM-05)
0.105kg ; 120pcs / 13.6kg / 0.97CUFT(PM-10)
0.14kg ; 120pcs / 17.8kg / 0.97CUFT(PM-15)
0.18kg ; 90pcs / 17.2kg / 0.97CUFT(PM-20)

PM-05 Series

Model No.	Output	Tol.	R&N	Effi.
PM-05-3.3	3.3V, 0~1.25A	±3%	80mV	67%
PM-05-5	5V, 0~1.00A	±2%	80mV	71%
PM-05-12	12V, 0~0.42A	±2%	150mV	73%
PM-05-15	15V, 0~0.33A	±2%	150mV	74%
PM-05-24	24V, 0~0.23A	±2%	240mV	76%

PM-10 Series

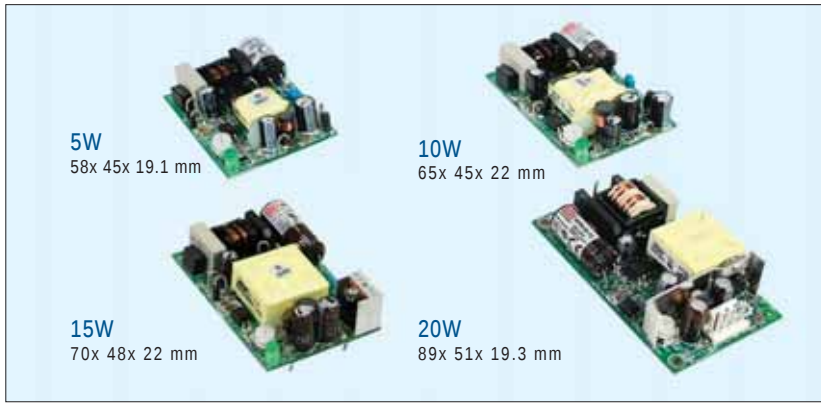
Model No.	Output	Tol.	R&N	Effi.
PM-10-3.3	3.3V, 0~2.50A	±3%	150mV	66%
PM-10-5	5V, 0~2.00A	±2%	150mV	74%
PM-10-12	12V, 0~0.85A	±2%	150mV	78%
PM-10-15	15V, 0~0.67A	±2%	150mV	79%
PM-10-24	24V, 0~0.42A	±2%	240mV	79%

PM-15 Series

Model No.	Output	Tol.	R&N	Effi.
PM-15-3.3	3.3V, 0~3.50A	±3%	80mV	73%
PM-15-5	5V, 0~3.00A	±2%	80mV	76%
PM-15-12	12V, 0~1.25A	±2%	150mV	78%
PM-15-15	15V, 0~1.00A	±2%	150mV	79%
PM-15-24	24V, 0~0.63A	±2%	240mV	81%

PM-20 Series

Model No.	Output	Tol.	R&N	Effi.
PM-20-3.3	3.3V, 0~4.50A	±3%	80mV	71%
PM-20-5	5V, 0~4.40A	±2%	80mV	75%
PM-20-12	12V, 0~1.80A	±2%	150mV	81%
PM-20-15	15V, 0~1.40A	±2%	150mV	83%
PM-20-24	24V, 0~0.92A	±2%	240mV	84%

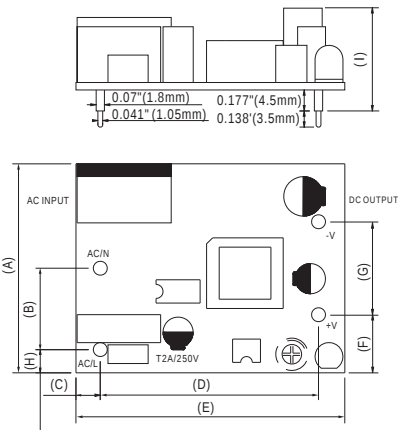


Features

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Protections:
 - Short circuit / Overload / Over voltage / Over temp.
- Low leakage current < 300 μ A (20W)
- No load power consumption <0.5W (<0.75W for 20W models)
- Isolation class II (5~15W)
- On-board type version available for 20W (optional)
- Cooling by free air convection
- Meet industrial, IT safety requirements
- 100% full load burn-in test
- 3 years warranty

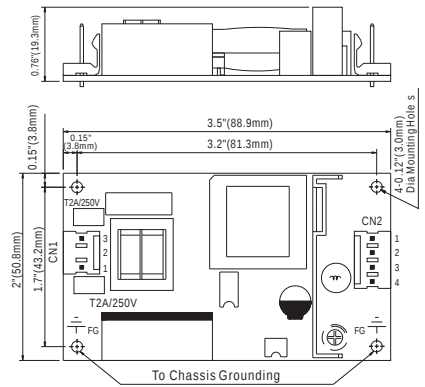


NFM-05 / 10 / 15 Series



	5W	10W	15W
A	1.77" (45mm)	1.77" (45mm)	1.89" (48mm)
B	0.689" (17.5mm)	0.689" (17.5mm)	0.788" (20mm)
C	0.21" (5.33mm)	0.22" (5.5mm)	0.157" (4mm)
D	1.85" (47mm)	2.13" (54mm)	2.441" (62mm)
E	2.28" (57.9mm)	2.56" (65mm)	2.75" (69.85mm)
F	0.491" (12.47mm)	0.491" (12.47mm)	0.492" (12.5mm)
G	0.789" (20.04mm)	0.789" (20.04mm)	0.906" (23.01mm)
H	0.196" (5mm)	0.196" (5mm)	0.157" (4mm)
I	0.75" (19.1mm)	0.87" (22mm)	0.87" (22mm)

NFM-20 Series



General Specification

AC input voltage range	85~264VAC; 120~370VDC
Frequency range	47~440Hz
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC (NFM-15: 30A at 115VAC, 50A at 230VAC) (NFM-20: 30A at 115VAC, 65A at 230VAC)
DC adjustment range	$\pm 10\%$ rated output voltage
Overload protection	>105% hiccup mode, auto recovery
Over voltage protection	115%~135% rated output voltage, shut off, AC recycle to re-start
Over temp. protection	Shutdown o/p voltage, recovers automatically after temperature goes down
Setup, rise, hold up time	NFM-5/15: 1000ms, 20ms, 100ms @ 230VAC NFM-10: 1800ms, 20ms, 100ms @ 230VAC NFM-20: 500ms, 20ms, 50ms @ 230VAC
Withstand voltage	I/P-O/P: 4kVAC, 1 minute
Working temperature	NFM-5/10/15: -20~+70°C NFM-20: -20~+60°C
Safety standards	ANSI/AAMI ES60601-1, TUV EN60601-1, UL60950-1 (NFM-15) approved
EMC standards	EN55011, EN55022 class B, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A
Connection	4 industrial pins for 5~15W 3P/4P/3.96mm pitch, Molex 41791-03/04 for 20W
Packing	0.03kg; 120pcs / 4.6kg / 0.97CUFT(NFM-05) 0.045kg; 120pcs / 6.4kg / 0.97CUFT(NFM-10) 0.065kg; 120pcs / 8.8kg / 0.97CUFT(NFM-15) 0.09kg; 105pcs / 10.5kg / 0.97CUFT(NFM-20)

5W

NFM-05

Model No.	Output	Tol.	R&N	Effi.
NFM-05-3.3	3.3V, 0~1.25A	$\pm 2\%$	80mV	67%
NFM-05-5	5V, 0~1.00A	$\pm 2\%$	80mV	71%
NFM-05-12	12V, 0~0.42A	$\pm 1\%$	150mV	73%
NFM-05-15	15V, 0~0.33A	$\pm 1\%$	150mV	74%
NFM-05-24	24V, 0~0.23A	$\pm 1\%$	240mV	76%

10W

NFM-10

Model No.	Output	Tol.	R&N	Effi.
NFM-10-3.3	3.3V, 0~2.50A	$\pm 2\%$	150mV	66%
NFM-10-5	5V, 0~2.00A	$\pm 2\%$	150mV	74%
NFM-10-12	12V, 0~0.85A	$\pm 1\%$	150mV	78%
NFM-10-15	15V, 0~0.67A	$\pm 1\%$	150mV	79%
NFM-10-24	24V, 0~0.42A	$\pm 1\%$	240mV	79%

15W

NFM-15

Model No.	Output	Tol.	R&N	Effi.
NFM-15-3.3	3.3V, 0~3.50A	$\pm 2\%$	80mV	73%
NFM-15-5	5V, 0~3.00A	$\pm 2\%$	80mV	76%
NFM-15-12	12V, 0~1.25A	$\pm 1\%$	150mV	78%
NFM-15-15	15V, 0~1.00A	$\pm 1\%$	150mV	79%
NFM-15-24	24V, 0~0.63A	$\pm 1\%$	240mV	81%

20W

NFM-20

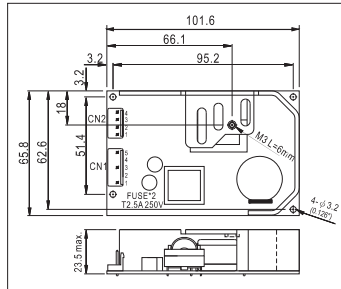
Model No.	Output	Tol.	R&N	Effi.
NFM-20-3.3	3.3V, 0~4.50A	$\pm 2\%$	80mV	71%
NFM-20-5	5V, 0~4.40A	$\pm 2\%$	80mV	75%
NFM-20-12	12V, 0~1.80A	$\pm 1\%$	150mV	81%
NFM-20-15	15V, 0~1.40A	$\pm 1\%$	150mV	83%
NFM-20-24	24V, 0~0.92A	$\pm 1\%$	240mV	84%

30W Single Output Medical Type

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current $\leq 200\mu\text{A}$
- Compact size, low profile
- 100% full load burn-in test
- 3 years warranty



101.6x 65.8x 23.5 mm



AC input voltage range 88~264VAC; 120~370VDC
 Overload protection >105% hiccup mode, auto-recovery
 Over voltage protection ... 110%~135% rated output voltage
 Leakage current Less than 200 μA at 264VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved
 EMC standards EN55011 class B, EN60601-1-2, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection 5+4P/ 3.96mm pitch, Molex P/N: 41791-05,04
 Packing 0.16kg ; 90pcs / 15.8kg / 1.02CUFT

Model No.	Output	Tol.	R&N	Effi.
MPS-30-5	5V, 0~5.0A	$\pm 3\%$	80mV	72%
MPS-30-12	12V, 0~2.5A	$\pm 3\%$	120mV	75%
MPS-30-15	15V, 0~2.0A	$\pm 3\%$	150mV	76%
MPS-30-24	24V, 0~1.2A	$\pm 3\%$	240mV	77%
MPS-30-27	27V, 0~1.1A	$\pm 3\%$	240mV	78%
MPS-30-48	48V, 0~0.6A	$\pm 2\%$	240mV	78%

Under Development **RSP-1600 Series**
1600W AC/DC
1U Low Profile
Enclosed Type

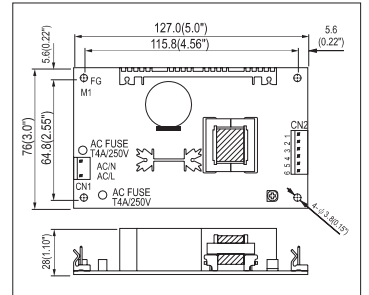
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- High efficiency up to 93%
- Vo and Io can be trimmed by external control signal
- Active current sharing
- Built-in remote ON-OFF control and remote sense function
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Forced air cooling by built-in DC fan with fan speed control
- Protections: Short circuit / Overload / Over voltage / Over temperature
- DC OK signal, OTP alarm signal
- Output models: 12V/15V/24V/27V/36V/48V
- Dimension(LxWxH): 320x85x41mm
- 5 years warranty

45W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Protections: Short circuit / Overload / Over voltage
- Low leakage current $\leq 250\mu\text{A}$
- Approvals: UL / CUL / TUV / CB / CE
- Fixed switching frequency at 45kHz
- 100% full load burn-in test
- 3 years warranty



127x 76x 28 mm



AC input voltage range 90~264VAC; 120~370VDC
 AC inrush current Cold start, 17A at 115VAC, 35A at 230VAC
 DC adjustment range CH1: $\pm 10\%$ rated output voltage
 Overload protection 53~75W hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 250 μA at 264VAC
 Setup, rise, hold up time .. 800ms, 30ms, 50ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved
 EMC standards EN55011 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2
 Connection 2P,6P/ 3.96mm pitch, Molex P/N: 5277-02, 5273-06
 Packing 0.18kg ; 72pcs/ 15.1kg / 1.35CUFT (MPS-45)
 0.20kg ; 72pcs/ 17.4kg / 1.35CUFT (MPD-45)
 0.21kg ; 72pcs/ 18.0kg / 1.35CUFT (MPT-45)

Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-45-3.3	3.3V, 0~8.0A	$\pm 3\%$	80mV	65%
MPS-45-5	5V, 0~8.0A	$\pm 3\%$	100mV	72%
MPS-45-7.5	7.5V, 0~5.4A	$\pm 3\%$	100mV	75%
MPS-45-12	12V, 0~3.7A	$\pm 2\%$	100mV	76%
MPS-45-13.5	13.5V, 0~3.3A	$\pm 2\%$	100mV	76%
MPS-45-15	15V, 0~3.0A	$\pm 2\%$	100mV	77%
MPS-45-24	24V, 0~1.9A	$\pm 2\%$	100mV	78%
MPS-45-27	27V, 0~1.7A	$\pm 2\%$	100mV	78%
MPS-45-48	48V, 0~1.0A	$\pm 2\%$	100mV	78%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-45A	5V, 0.4~5.0A	$\pm 4\%$	60mV	76%	40W
	12V, 0.2~2.5A	$\pm 7\%$	120mV		
MPD-45B	5V, 0.4~5.0A	$\pm 4\%$	60mV	78%	45W
	24V, 0.2~1.8A	$\pm 7\%$	150mV		

Triple Output

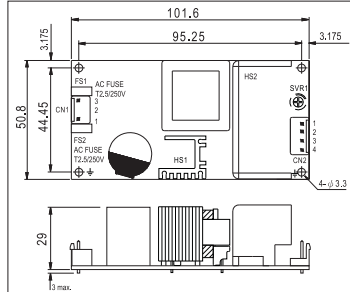
Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-45A	5V, 0.4~5.0A	$\pm 4\%$	60mV	73%	41W
	12V, 0.2~2.5A	$\pm 7\%$	120mV		
	-5V, 0.0~0.5A	$\pm 5\%$	60mV		
MPT-45B	5V, 0.4~5.0A	$\pm 4\%$	60mV	75%	43W
	12V, 0.2~2.5A	$\pm 7\%$	120mV		
	-12V, 0.0~0.5A	$\pm 5\%$	100mV		
MPT-45C	5V, 0.4~5.0A	$\pm 4\%$	60mV	75%	44W
	15V, 0.2~2.3A	$\pm 7\%$	120mV		
	-15V, 0.0~0.5A	$\pm 5\%$	100mV		

60W 1~3 Output Medical Type

- 4"x2" compact size
- Universal AC input / Full range
- **Medical safety approved (2xMOPP)**
- Suitable for BF application with appropriate system consideration
- Protections: Short circuit / Overload / Over voltage
- Low leakage current <150μA
- No load power consumption <0.75W (single output models only)
- 110% peak load capability
- High power density 6.57W/in³
- Cooling by free air convection
- 3 years warranty
- **Suitable for medical & IT applications**



101.6x 50.8x 29 mm



AC input voltage range90~264VAC; 127~370VDC
 AC inrush currentCold start, 30A at 115VAC, 60A at 230VAC
 DC adjustment range-5%~+10% rated output voltage (single output only)
 Overload protection115%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 110%~135% rated output voltage
 Leakage currentLess than 150μA at 264VAC
 Setup, rise, hold up time .. 500ms, 30ms, 50ms at full load and 230VAC (RPS-60)
 200ms, 15ms, 70ms at full load and 230VAC (RPD/T-60)
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature-20~+70°C (RPS-60, refer to output derating curve)
 -20~+65°C (RPD/T-60, refer to output derating curve)
 Safety standardsANSI/AAMI ES60601-1, UL60950-1,
 TUV EN60601-1, EN60950-1 approved
 EMC standardsEN55011 / EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11, EN60601-1-2,
 EN61204-3 medical level
 Connection3,4P / 3.96mm pitch, JST P/N: B3P / B4P-VH (RPS-60)
 3,6P / 3.96mm pitch, JST P/N: B3P / B6P-VH (RPD/T-60)
 Packing0.15kg ; 96pcs / 15.4kg / 0.89CUFT

Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS-60-3.3	3.3V, 0~11A	±2%	80mV	74%
RPS-60-5	5V, 0~11A	±2%	80mV	79%
RPS-60-12	12V, 0~5.5A	±2%	120mV	83%
RPS-60-15	15V, 0~4.4A	±2%	150mV	84%
RPS-60-24	24V, 0~2.75A	±1%	240mV	85%
RPS-60-48	48V, 0~1.375A	±1%	300mV	86%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-60A	5V, 0.5~5.5A	+3%,-2%	80mV	78%	54W
	12V, 0.1~2.2A	±6%	80mV		
RPD-60B	5V, 0.5~3.85A	+3%,-2%	80mV	82%	59W
	24V, 0.1~1.65A	+8%,-4%	100mV		

Triple Output

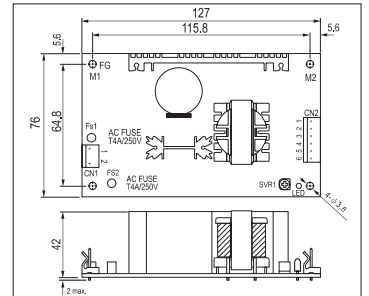
Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-60A	5V, 0.5~4.4A	+3%,-2%	80mV	77%	51W
	12V, 0.1~2.2A	±6%	80mV		
	-5V, 0.1~0.55A	+9%,-8%	80mV		
RPT-60B	5V, 0.5~4.4A	+3%,-2%	80mV	78%	55W
	12V, 0.1~2.2A	±6%	80mV		
	-12V, 0.1~0.55A	+10%,-6%	100mV		
RPT-60C	5V, 0.5~4.4A	+3%,-2%	80mV	79%	55W
	15V, 0.1~0.65A	±6%	100mV		
	-15V, 0.1~0.55A	±8%	150mV		
RPT-60D	5V, 0.5~3.85A	+3%,-2%	80mV	79%	52W
	24V, 0.1~1.1A	±6%	150mV		
	12V, 0.1~0.55A	±8%	80mV		
RPT-6003	3.3V, 0.5~5.5A	+3%,-2%	80mV	75%	44W
	5V, 0.3~3.3A	±8%	80mV		
	12V, 0.1~0.77A	+10%,-6%	80mV		

65W 1~3 Output Medical Type

- Universal AC input / Full range
- **Medical safety approved (2xMOPP)**
- Protections: Short circuit / Overload / Over voltage
- Low leakage current≤250μA
- Fixed switching frequency at 45kHz
- 100% full load burn-in test
- 3 years warranty



127x 76x 42 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 17A at 115VAC, 35A at 230VAC
 DC adjustment range CH1: ±10% rated output voltage
 Overload protection 73%~105% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 250μA at 264VAC
 Setup, rise, hold up time .. 800ms, 30ms, 50ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1 approved
 EMC standards EN55011 class B, EN61000-4-2,3,4,5,6,8,11,
 EN61000-3-2,3, EN60601-1-2
 Connection 2P, 6P/ 3.96mm pitch, Molex: 5277-02, 5273-06
 Packing 0.23kg ; 54pcs/ 14.6kg / 1.35CUFT (MPS-65)
 0.25kg ; 54pcs/ 16.0kg / 1.35CUFT (MPD-65)
 0.27kg ; 54pcs/ 16.8kg / 1.35CUFT (MPT-65)

Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-65-3.3	3.3V, 0~12A	±3%	80mV	66%
MPS-65-5	5V, 0~12A	±3%	100mV	74%
MPS-65-7.5	7.5V, 0~8.0A	±3%	100mV	76%
MPS-65-12	12V, 0~5.2A	±2%	100mV	77%
MPS-65-13.5	13.5V, 0~4.7A	±2%	100mV	78%
MPS-65-15	15V, 0~4.2A	±2%	100mV	79%
MPS-65-24	24V, 0~2.7A	±2%	100mV	80%
MPS-65-27	27V, 0~2.4A	±2%	100mV	80%
MPS-65-48	48V, 0~1.35A	±2%	100mV	80%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-65A	5V, 0.4~7.0A	±4%	60mV	75%	61W
	12V, 0.2~3.2A	±7%	150mV		
MPD-65B	5V, 0.4~6.0A	±4%	60mV	78%	66W
	24V, 0.2~2.6A	±7%	150mV		

Triple Output

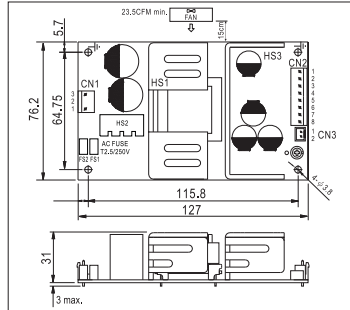
Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-65A	5V, 0.4~7.0A	±4%	60mV	74%	60W
	12V, 0.2~3.2A	+10%,-7%	120mV		
	-5V, 0.0~0.7A	±5%	60mV		
MPT-65B	5V, 0.4~7.0A	±4%	60mV	74%	64W
	12V, 0.2~3.2A	+10%,-7%	160mV		
	-12V, 0.0~0.7A	±5%	100mV		
MPT-65C	5V, 0.4~7.0A	±4%	60mV	74%	65W
	15V, 0.2~2.6A	+10%,-7%	180mV		
	-15V, 0.0~0.7A	±5%	100mV		

75W 1~3 Output Medical Type

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Protections: Short circuit / Overload / Over voltage
- No load power consumption <0.75W (single output models only)
- Low leakage current <150μA
- Fixed switching frequency at 65kHz
- Free air convection for 75W and 100W with 23.5CFM forced air
- 3 years warranty
- Suitable for medical & IT applications



127x 76.2x 31 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 25A at 115VAC, 50A at 230VAC
 DC adjustment range CH1: -5%~+10% rated output voltage
 Overload protection 140%~180% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 150μA at 264VAC
 Setup, rise, hold up time 500ms, 30ms, 80ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature -20~+70°C (refer to output derating curve)
 Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1 approved
 EMC standards EN55011 / EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, EN60601-1-2, EN61204-3 medical level
 Connection 3+8P / 3.96mm pitch, JST P/N: B3P / B8P-VH
 Packing 0.26kg ; 63pcs / 16.3kg / 1.35CUFT(RPS-75)
 0.25kg ; 63pcs / 16.7kg / 1.35CUFT(RPD-75)
 0.26kg ; 63pcs / 17.4kg / 1.35CUFT(RPT-75)

Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS-75-3.3	3.3V, 0~20A	±2%	80mV	73%
RPS-75-5	5V, 0~18.7A	±2%	80mV	78%
RPS-75-12	12V, 0~8.3A	±1%	120mV	82%
RPS-75-15	15V, 0~6.7A	±1%	150mV	83%
RPS-75-24	24V, 0~4.2A	±1%	240mV	85%
RPS-75-36	36V, 0~2.8A	±1%	300mV	86%
RPS-75-48	48V, 0~2.1A	±1%	300mV	86%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-75A	5V, 1.0~9.5A	±2%	80mV	77%	96W
	12V, 0.3~4.0A	±6%	120mV		
RPD-75B	5V, 1.0~6.8A	±2%	80mV	79%	99W
	24V, 0.2~2.7A	±6%	200mV		

Triple Output

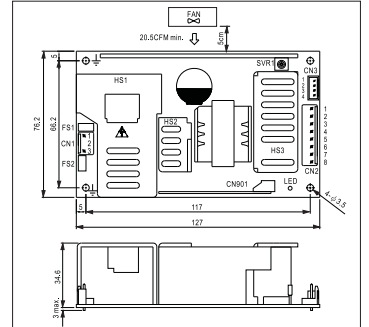
Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-75A	5V, 0.6~8.0A	±2%	80mV	76%	93W
	12V, 0.2~4.0A	±6%	120mV		
	-5V, 0.1~1.0A	±5%	120mV		
RPT-75B	5V, 0.6~8.0A	±2%	80mV	77%	100W
	12V, 0.2~4.0A	±6%	120mV		
	-12V, 0.1~1.0A	±5%	120mV		
RPT-75C	5V, 0.6~8.0A	±2%	80mV	77%	100W
	15V, 0.1~3.0A	±8%	150mV		
	-15V, 0.1~1.0A	±5%	150mV		
RPT-75D	5V, 0.6~7.0A	±2%	80mV	79%	95W
	24V, 0.1~2.0A	±8%	200mV		
	12V, 0.1~1.0A	±8%	120mV		
RPT-7503	3.3V, 0.7~7.0A	±4%	80mV	74%	81W
	5V, 0.0~8.0A	±6%	120mV		
	12V, 0.0~1.5A	+10%,-6%	120mV		

160W 1~3 Output Medical Type with PFC

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current <200μA
- Free air convection for 110W and 160W with 20.5 CFM forced air (RPS-160); Free air convection for 100W and 150W with 20.5 CFM forced air (RPD / T-160)
- 5"x3" compact size
- With power good and fail signal output
- Built-in remote sense function for 5~15V (RPS-160)
- Standby 5V@0.8A (G model)
- No load power consumption under 0.75W by PS-ON control (G model)
- 3 years warranty
- Suitable for medical & IT applications



127x 76.2x 34.6mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 35A at 115VAC, 70A at 230VAC
 DC adjustment range RPS-160: ±10% rated output voltage
 RPD/T-160: 0~+10% for CH1
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% shut off, re-power on to recovery
 Leakage current Less than 200μA at 264VAC
 Setup, rise, hold up time 1800ms, 30ms, 16ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature -20~+70°C (refer to output derating curve)
 Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1 approved
 EMC standards EN55011/EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, EN60601-1-2, EN61000-6-2 (RPS(G)-160)
 Connection 3+8+2(4)P/3.96mm pitch JST B3P / B8P-VH, B2B (B4B)-XH

Single Output

Model No.	Output	Tol.	R&N	Effi.
RPS□-160-5	5V, 0~30.0A	±4%	100mV	85%
RPS□-160-12	12V, 0~12.9A	±3%	100mV	87%
RPS□-160-15	15V, 0~10.3A	±3%	120mV	87%
RPS□-160-24	24V, 0~6.5A	±2%	150mV	87%
RPS□-160-48	48V, 0~3.25A	±2%	250mV	88%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD□-160B	5V, 1.0~12A	±2.5%	80mV	84%	150W
	24V, 0.2~3.6A	±6%	200mV		

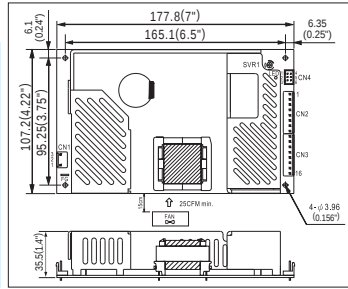
Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPT□-160A	5V, 0.6~14A	±2%	100mV	84%	145W
	12V, 0.2~5.5A	±5%	120mV		
	-5V, 0.1~1.0A	-5%,+7%	120mV		
RPT□-160B	5V, 0.6~14A	±2%	100mV	84%	146W
	12V, 0.2~5.0A	±5%	120mV		
	-12V, 0.1~1.0A	-4%,+5%	120mV		
RPT□-160C	5V, 0.6~14A	±2%	100mV	83%	143W
	15V, 0.1~3.6A	±4%	150mV		
	-15V, 0.1~1.0A	±8%	150mV		
RPT□-160D	5V, 0.3~11A	±2%	100mV	83%	148W
	12V, 0.2~5.0A	±5%	120mV		
	24V, 0.15~1.2A	-5%,+7%	200mV		

□ = blank, G; blank: basic function, G: with 5Vsb/0.8A & no load power consumption < 0.75W

200W 1~4 Output Medical Type with PFC

- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current $\leq 180\mu\text{A}$
- With P.G. and P.F. signal output
- Built-in remote sense and remote ON/OFF control
- 140W free air convection, 200W with 25CFM forced air
- 100% full load burn-in test
- 3 years warranty
- **Suitable for medical & IT applications**



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 35A at 115VAC, 60A at 230VAC
 DC adjustment range CH1: -5~+10% rated output voltage
 Overload protection 110%~160% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~140% rated output voltage
 Leakage current Less than 180 μA at 264VAC
 Setup, rise, hold up time 1000ms, 20ms, 16ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -20~+70°C (refer to output derating curve)
 Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved; Design refer to UL60950-1, TUV EN60950-1
 EMC standards EN55011/EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2, EN61000-6-2
 Connection 3P, 20P / 3.96mm pitch, JST B3P/VH, Molex 5566-20 3P, 8Px2 / 3.96mm pitch, JSTB3P / B8Px2-VH
 Packing 0.66kg; 24pcs / 16.8kg / 0.99CUFT

Single Output

Model No.	Output	Tol.	R&N	Effi.
MPS-200-3.3	3.3V, 0~40A	$\pm 2\%$	80mV	77%
MPS-200-5	5V, 0~40A	$\pm 2\%$	80mV	81%
MPS-200-12	12V, 0~16.7A	$\pm 2\%$	100mV	84%
MPS-200-15	15V, 0~13.4A	$\pm 2\%$	100mV	85%
MPS-200-24	24V, 0~8.4A	$\pm 1\%$	150mV	86%
MPS-200-48	48V, 0~4.2A	$\pm 1\%$	200mV	87%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPD-200A	5V, 4.0~24A	$\pm 2\%$	80mV	82%	196W
	12V, 0.8~9.6A	$\pm 8\%$, -5%	120mV		
MPD-200B	5V, 4.0~24A	$\pm 2\%$	80mV	83%	196W
	24V, 0.4~4.8A	$\pm 6.5\%$	180mV		

Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
MPT-200A	5V, 4.0~24A	$\pm 2\%$	80mV	80%	200W
	12V, 0.8~9.0A	$\pm 8\%$	120mV		
	-5V, 0.0~2.4A	$\pm 5\%$	80mV		
MPT-200B	5V, 4.0~24A	$\pm 2\%$	80mV	80%	196W
	12V, 0.6~7.2A	$\pm 8\%$	120mV		
	-12V, 0.0~2.4A	$\pm 5\%$	80mV		
MPT-200C	5V, 4.0~24A	$\pm 2\%$	80mV	80%	201W
	15V, 0.5~5.6A	$\pm 8\%$	150mV		
	-15V, 0.0~2.4A	$\pm 5\%$	80mV		
MPT-200D	5V, 4.0~24A	$\pm 2\%$	80mV	81%	196W
	24V, 0.3~3.6A	$\pm 8\%$	180mV		
	12V, 0.0~2.4A	$\pm 5\%$	80mV		

Quad Output

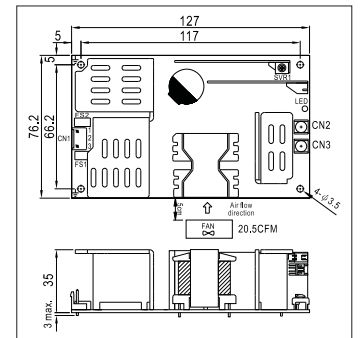
Model No.	Output	Tol.	R&N	Effi.	Max.
MPQ-200B	5V, 3.0~18A	$\pm 2\%$	80mV	78%	193W
	12V, 0.7~8.4A	$\pm 8\%$	120mV		
	-5V, 0.0~2.4A	$\pm 5\%$	80mV		
	-12V, 0.0~2.4A	$\pm 5\%$	80mV		
MPQ-200C	5V, 3.0~18A	$\pm 2\%$	80mV	78%	190W
	15V, 0.5~6.0A	$\pm 6\%$	150mV		
	-5V, 0.0~2.4A	$\pm 5\%$	80mV		
	-15V, 0.0~2.4A	$\pm 5\%$	80mV		
MPQ-200D	5V, 3.0~18A	$\pm 2\%$	80mV	79%	195W
	24V, 0.3~3.6A	$\pm 8\%$	180mV		
	12V, 0.0~2.4A	$\pm 5\%$	80mV		
	-12V, 0.0~2.4A	$\pm 5\%$	80mV		
MPQ-200F	5V, 3.0~18A	$\pm 2\%$	80mV	81%	200W
	24V, 0.3~3.3A	$\pm 8\%$	180mV		
	15V, 0.0~2.4A	$\pm 5\%$	80mV		
	-15V, 0.0~2.4A	$\pm 5\%$	80mV		

300W Single Output Medical Type with PFC

- 5"x 3" compact size
- Universal AC input / Full range
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- No load power consumption <0.5W by PS-ON control
- High efficiency up to 93%
- Built-in 12V/0.5A auxiliary output
- Built-in remote sense function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Low leakage current <300 μA
- Free air convection for 200W and 300W with 20.5 CFM forced air
- Standby 5V@1A
- With P.G. and P.F. signal output
- High power density 14.5W/in³
- 3 years warranty



127x 76.2x 35 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 40A at 115VAC, 80A at 230VAC
 DC adjustment range $\pm 5\%$ rated output voltage
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 110%~125% shut off, re-power on to recovery
 Leakage current Less than 300 μA at 264VAC
 Setup, rise, hold up time 2500ms, 30ms, 13ms at full load and 230VAC
 Withstand voltage I/P-O/P: 4kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards ANSI/AAMI ES60601-1, TUV EN60601-1
 EMC standards EN55011, EN55022 conduction class B, radiation class A, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, EN60601-1-2

Model No.	Output	Tol.	R&N	Effi.
RPS-300-12	12V, 0~25A	$\pm 3\%$	120mV	90.0%
RPS-300-15	15V, 0~20A	$\pm 3\%$	120mV	90.0%
RPS-300-24	24V, 0~12.5A	$\pm 2\%$	150mV	92.5%
RPS-300-27	27V, 0~11.12A	$\pm 2\%$	200mV	93.0%
RPS-300-48	48V, 0~6.25A	$\pm 2\%$	250mV	93.0%

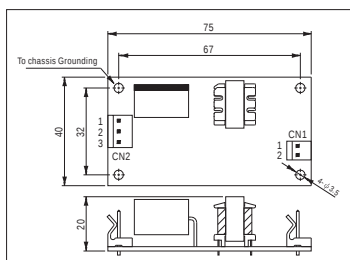
5W & 15W & 35W Single Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature(PS-05/15)
- Cooling by free air convection
- Low leakage current <0.5mA(PS-05/15)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

CB CE



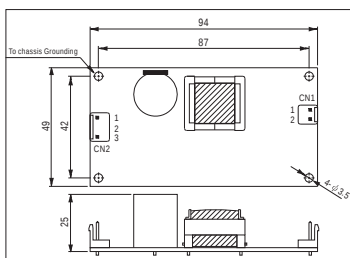
PS-05
75x 40x 20 mm



CB CE



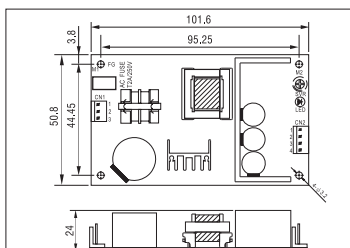
PS-15
94x 49x 25 mm



CB CE



101.6x 50.8x 24 mm



- AC input voltage range 85~264VAC; 120~370VDC(PS-05/15)
90~264VAC; 127~370VDC(PS-35)
- AC inrush current Cold start, 30A at 230VAC(PS-05),
40A at 230VAC(PS-15), 45A at 230VAC(PS-35)
- Overload protection 105%~160% hiccup mode, auto-recovery
- Over voltage protection 115%~150% rated output voltage
- Over temp. protection Hiccup mode, auto-recovery(PS-05/15)
- Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
- Working temperature -10~+60°C (PS-05/15); -20~+65°C (PS-35)
- Safety standards IEC60950-1 CB approved(PS-05/15)
UL60950-1, TUV EN60950-1 approved(PS-35)
- EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5,6,8,11
- Connection PS-05: 3P/ 5mm, 2P/ 3.96mm pitch, Molex 5285-03,5273-02
PS-15: 3+2P/3.96mm pitch, JST B3P/B2P-VH
PS-35: 3+4P/3.96mm pitch, JST B3P/B4P-VH-B

❖ 5W

Model No.	Output	Tol.	R&N	Effi.
PS-05-5	5V, 0~1.0A	±2%	100mV	70%
PS-05-12	12V, 0~0.45A	±2%	120mV	75%
PS-05-15	15V, 0~0.35A	±2%	120mV	75%
PS-05-24	24V, 0~0.22A	±2%	200mV	76%
PS-05-48	48V, 0~0.11A	±1%	200mV	76%

❖ 10W

Model No.	Output	Tol.	R&N	Effi.
PS-15-5	5V, 0~2.80A	±2%	100mV	74%
PS-15-12	12V, 0~1.25A	±2%	120mV	77%
PS-15-15	15V, 0~1.00A	±2%	120mV	78%
PS-15-24	24V, 0~0.625A	±2%	150mV	79%
PS-15-48	48V, 0~0.313A	±2%	200mV	77%

❖ 35W

Model No.	Output	Tol.	R&N	Effi.
PS-35-3.3	3.3V, 0~6.0A	±2%	80mV	70%
PS-35-5	5V, 0~6.0A	±2%	100mV	78%
PS-35-7.5	7.5V, 0~4.7A	±2%	100mV	80%
PS-35-12	12V, 0~3.0A	±1%	120mV	81%
PS-35-13.5	13.5V, 0~2.6A	±1%	120mV	81%
PS-35-15	15V, 0~2.4A	±1%	150mV	81%
PS-35-24	24V, 0~1.5A	±1%	200mV	85%
PS-35-48	48V, 0~0.75A	±1%	240mV	84%

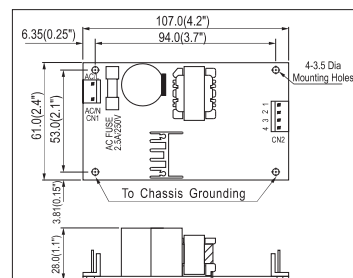
25W 1~2 Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- Low leakage current <0.5mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

CB CE



107x 61x 28 mm



- AC input voltage range 85~264VAC; 120~370VDC
- AC inrush current Cold start, 36A at 230VAC
- Overload protection >105% hiccup mode, auto-recovery
- Over voltage protection 115%~135% rated output voltage
- Over temp. protection Shut down o/p voltage, re-power on to recover
- Leakage current Less than 0.5mA at 240VAC
- Withstand voltage I/P-O/P: 3kVAC, I/P-FG:2kVAC, 1minute
- Working temperature -10~+60°C (refer to output derating curve)
- Safety standards UL60950-1, TUV EN60950-1 approved
- EMC standards EN55022 class B, EN61000-3-2,3,
EN61000-4-2,3,4,5
- Connection 3P, 4P/ 3.96mm pitch, Molex P/N: 41791-03, 04
- Packing 0.14kg ; 96pcs / 15.0kg / 1.30CUFT(PS-25)
0.15kg ; 96pcs / 15.9kg / 1.30CUFT(PD-25)
0.13kg ; 96pcs / 15.4kg / 1.30CUFT(PD-2503)

❖ Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-25-3.3	3.3V, 0~5.0A	±3%	80mV	66%
PS-25-5	5V, 0~5.0A	±2%	80mV	74%
PS-25-7.5	7.5V, 0~3.3A	±2%	80mV	76%
PS-25-12	12V, 0~2.1A	±2%	100mV	78%
PS-25-13.5	13.5V, 0~1.9A	±2%	100mV	78%
PS-25-15	15V, 0~1.7A	±2%	100mV	78%
PS-25-24	24V, 0~1.0A	±2%	240mV	79%
PS-25-27	27V, 0~0.9A	±2%	240mV	79%
PS-25-48	48V, 0~0.5A	±2%	350mV	79%

❖ Dual Output

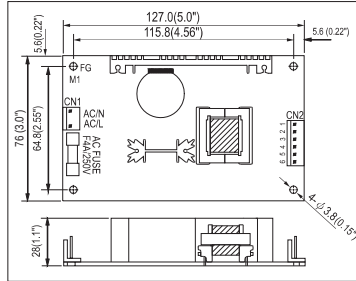
Model No.	Output	Tol.	R&N	Effi.	Max.
PD-25A	5V, 0.2~2.5A	±2%	50mV	71%	25W
	12V, 0.1~1.5A	±6%	150mV		
PD-25B	5V, 0.2~2.0A	±2%	50mV	77%	25W
	24V, 0.1~1.0A	±6%	200mV		
PD-2505	5V, 0.1~3.0A	±6%	50mV	73%	25W
	-5V, 0.1~2.5A	±6%	50mV		
PD-2512	12V, 0.1~1.2A	±4%	50mV	74%	24W
	-12V, 0.1~1.2A	±4%	50mV		
PD-2515	15V, 0.1~1.0A	±4%	50mV	75%	24W
	-15V, 0.1~1.0A	±4%	50mV		
PD-2503	3.3V, 0.2~5.0A	±2%	50mV	72%	25W
	5V, 0.1~4.0A	+5%,-8%	50mV		

45W 1~3 Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fixed switching frequency at 65kHz
- Low leakage current <0.75mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



127x 76x 28 mm



AC input voltage range ...90~264VAC; 127~370VDC
 AC inrush currentCold start, 15A at 115VAC, 30A at 230VAC
 DC adjustment rangeCH1: -5%~+10% rated output voltage
 Overload protection53~75W hiccup mode, auto-recovery
 Over voltage protection .. CH1: 115%~135% rated output voltage
 Leakage currentLess than 0.75mA at 240VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC(PS-45 2kVAC)
 Working temperature-10~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standardsEN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11
 Connection 2P, 6P/ 3.96mm pitch, Molex 5277-02 / 5273-06
 Packing 0.19kg ; 72pcs / 15.6kg / 1.35CUFT(PS-45)
 0.20kg ; 72pcs / 16.0kg / 1.35CUFT(PD-45)
 0.21kg ; 72pcs / 17.0kg / 1.35CUFT(PT-45)

Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-45-3.3	3.3V, 0~8.0A	±3%	80mV	69%
PS-45-5	5V, 0~8.0A	±3%	100mV	74%
PS-45-7.5	7.5V, 0~5.4A	±3%	100mV	75%
PS-45-12	12V, 0~3.7A	±2%	100mV	76%
PS-45-13.5	13.5V, 0~3.3A	±2%	100mV	77%
PS-45-15	15V, 0~3.0A	±2%	100mV	77%
PS-45-24	24V, 0~1.9A	±2%	100mV	78%
PS-45-27	27V, 0~1.7A	±2%	100mV	78%
PS-45-48	48V, 0~1.0A	±2%	100mV	78%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-45A	5V, 0.4~5.0A	±4%	50mV	77%	40W
	12V, 0.2~2.5A	±7%	120mV		
PD-45B	5V, 0.4~5.0A	±4%	50mV	78%	45W
	24V, 0.2~1.8A	±7%	120mV		

Triple Output

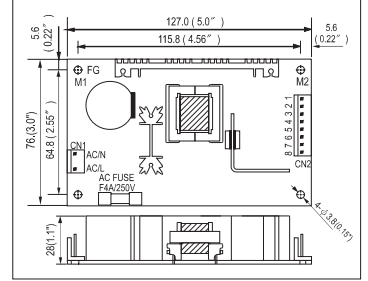
Model No.	Output	Tol.	R&N	Effi.	Max.
PT-45A	5V, 0.4~5.0A	±4%	50mV	75%	41W
	12V, 0.2~2.5A	±7%	120mV		
	-5V, 0.0~0.5A	±5%	50mV		
PT-45B	5V, 0.4~5.0A	±4%	50mV	75%	43W
	12V, 0.2~2.5A	±7%	120mV		
	-12V, 0.0~0.5A	±5%	100mV		
PT-45C	5V, 0.4~5.0A	±4%	50mV	75%	44W
	15V, 0.2~2.3A	±7%	120mV		
	-15V, 0.0~0.5A	±5%	100mV		

45W & 65W Triple Output with 3.3V Channel

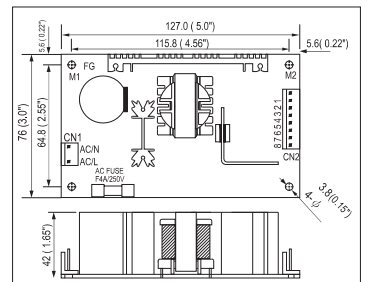
- Universal AC input / Full range
- Total power for CH1+2: 35W (PT-45)
- Total power for CH1+2: 54W (PT-65)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty



PT-4503
127x 76x 28 mm



PT-6503
127x 76x 42 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range 3.3V: ±10% rated output voltage
 Overload protection 120%~160% hiccup mode, auto-recovery
 Over voltage protection 5V: 115%~135% rated output voltage
 Leakage current Less than 1.0mA at 240VAC
 Setup, rise, hold up time 800ms, 50ms, 60ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standardsEN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,11
 Connection 2P, 8P/ 3.96mm pitch, Molex: 5277-02, 5273-08
 Packing 0.23kg ; 72pcs / 17.6kg / 1.35CUFT(PT-4503)
 0.28kg ; 54pcs / 16.2kg / 1.35CUFT(PT-6503)

Triple Output (45W)

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-4503	3.3V, 0.0~5.0A	±2%	50mV	72%	45W
	5V, 0.2~7.0A	+4%, -2%	50mV		
	12V, 0.0~1.2A	±8%	100mV		

Triple Output (65W)

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-6503	3.3V, 0.0~7.0A	±3%	50mV	72%	62W
	5V, 0.2~10A	+4%, -2%	50mV		
	12V, 0.0~1.2A	±8%	100mV		



48hrs delivery—

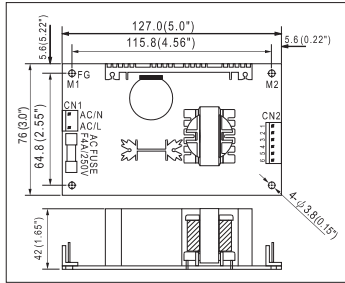
We keep enough stock for 95% of standard models at our 2400m² warehouse. We can arrange prompt delivery within 48hrs.

65W 1~3 Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Low leakage current <0.75mA
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



127x 76x 42 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range CH1: -5%~+10% rated output voltage
 Overload protection 73~105W hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 0.75mA at 240VAC
 Setup, rise, hold up time 800ms, 20ms, 60ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC (PS-65 2kVAC)
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection 2P, 6P/ 3.96mm pitch, Molex P/N: 5277-02, 5273-06
 Packing 0.21kg ; 54pcs / 14.2kg / 1.35CUFT (PS-65)
 0.24kg ; 54pcs / 15.0kg / 1.35CUFT (PD-65)
 0.25kg ; 54pcs / 15.9kg / 1.35CUFT (PT-65)

Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-65-3.3	3.3V, 0~12A	±3%	80mV	69%
PS-65-5	5V, 0~12A	±3%	100mV	76%
PS-65-7.5	7.5V, 0~8.0A	±3%	100mV	79%
PS-65-12	12V, 0~5.2A	±2%	100mV	79%
PS-65-13.5	13.5V, 0~4.7A	±2%	100mV	79%
PS-65-15	15V, 0~4.2A	±2%	100mV	79%
PS-65-24	24V, 0~2.7A	±2%	100mV	80%
PS-65-27	27V, 0~2.4A	±2%	100mV	80%
PS-65-48	48V, 0~1.35A	±2%	100mV	80%

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-65A	5V, 0.4~7.0A	±4%	50mV	78%	61W
	12V, 0.2~3.2A	±7%	120mV		
PD-65B	5V, 0.4~6.0A	±4%	50mV	81%	66W
	24V, 0.2~2.6A	±7%	150mV		

Triple Output

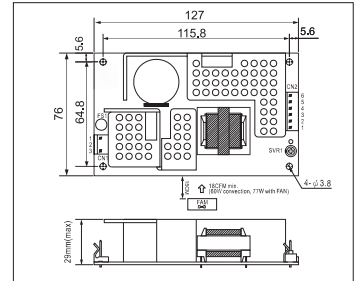
Model No.	Output	Tol.	R&N	Effi.	Max.
PT-65A	5V, 0.4~7.0A	±4%	50mV	76%	60W
	12V, 0.2~3.2A	±7%	120mV		
	-5V, 0.0~0.7A	±5%	50mV		
PT-65B	5V, 0.4~7.0A	±4%	50mV	77%	64W
	12V, 0.2~3.2A	±7%	120mV		
	-12V, 0.0~0.7A	±5%	100mV		
PT-65C	5V, 0.4~7.0A	±4%	50mV	77%	65W
	15V, 0.2~2.6A	±7%	120mV		
	-15V, 0.0~0.7A	±5%	100mV		
PT-65D	5V, 0.5~5.0A	±4%	50mV	79%	68W
	12V, 0.2~4.0A	±6%	100mV		
	24V, 0.2~1.3A	±6%	200mV		

65W 2, 3 Output

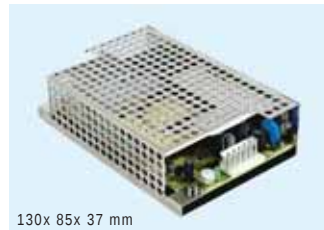
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 12V or 24V high peak current capability
- 60~65W free air convection, 77~80W with 18 CFM forced air
- Low leakage current < 1mA
- 100% full load burn-in test
- Optional case available (RPD/RPT-65x-C)
- 2 years warranty



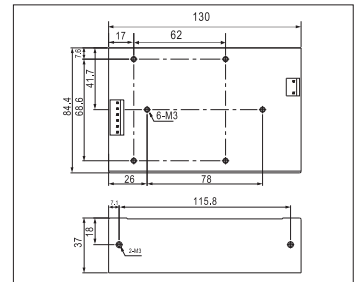
127x 76x 29 mm



With Optional Case



130x 85x 37 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 25A at 115VAC, 50A at 230VAC
 DC adjustment range CH1 12V: 11.4~12.8V, 24V: 22.8~26.4V
 Overload protection 90~125W hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Leakage current Less than 1mA at 240VAC
 Setup, rise, hold up time 800ms, 20ms, 20ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, 1minute
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection 3P, 6P/ 3.96mm pitch, Molex P/N: 5273-03, 5273-06
 Packing 0.24kg ; 63pcs / 16kg / 1.35CUFT (PCB type)
 0.47kg ; 32pcs / 16kg / 0.64CUFT (Enclosed type)

Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPD-65C□	12V, 0~5.8A	±2%	120mV	79%	60W
	5V, 0~1.5A	±5%	50mV		
RPD-65D□	24V, 0~2.9A	±2%	150mV	81%	60W
	5V, 0~1.5A	±5%	50mV		

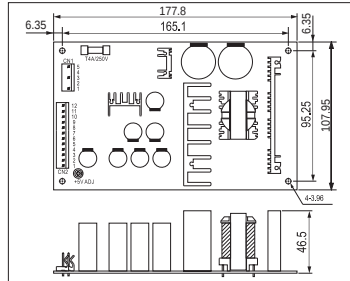
Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
RPT-65E□	12V, 0.18~5.8A	±2%	120mV	77%	63W
	5V, 0.0~1.5A	±5%	100mV		
	-5V, 0.0~0.7A	±5%	120mV		
RPT-65F□	12V, 0.18~5.8A	±2%	150mV	77%	66W
	5V, 0.0~1.5A	±5%	100mV		
	-12V, 0.0~0.7A	±5%	150mV		
RPT-65G□	24V, 0.09~2.9A	±2%	150mV	81%	66W
	5V, 0.0~1.5A	±5%	50mV		
	12V, 0.0~0.7A	±5%	100mV		

□ = blank, -C ; blank: PCB Type, -C: Enclosed Type

110W Dual Output

- Universal AC input / Full range
- Power good signal output (option)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Low leakage current <1mA@ 240VAC
- 2 years warranty

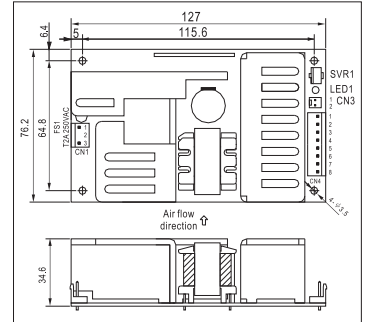


AC input voltage range ...100~264VAC; 141~370VDC
 AC inrush currentCold start, 45A at 230VAC
 DC adjustment rangeCH1: -5%~+10% rated output voltage
 Overload protection105%~135% hiccup mode, auto-recovery
 Over voltage protection ..CH1: 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,11
 Connection5+12P/ 3.96mm pitch, Molex: 5273-05,12
 Packing 0.51kg ; 24pcs / 13.1kg / 1.19CUFT

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-110A	5V, 0.5~5.0A	±2%	100mV	75%	103W
	12V, 0.5~6.5A	±6%	150mV		
PD-110B	5V, 0.5~5.0A	±2%	100mV	78%	109W
	24V, 0.5~3.5A	±6%	200mV		

125W 1,3 Output with PFC Function

- Universal AC input / Full range
- Built-in active PFC function
- High power density 6.117W/in³
- Protections: Short circuit / Overload / Over voltage
- Built-in remote sense for PPS-125
- LED indicator for power on
- Free air convection for 100W and 125W with 18 CFM forced air
- 100% full load burn-in test
- 3 years warranty



AC input voltage range90~264VAC; 127~370VDC
 AC inrush currentCold start, 24A at 230VAC
 DC adjustment rangeCH1: ±5% rated output voltage
 Overload protection130%~160% fold back current limiting, auto-recovery
 Over voltage protection CH1:110%~135% rated output voltage
 Leakage current Less than 2.0mA at 240VAC
 Setup, rise, hold up time 1000ms, 30ms, 24ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature-20~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11
 Connection3+8P /3.96mm pitch, JST: B3P/B8P-VH (PPS-125)
 3+5Px2 /3.96mm pitch, JST: B3P/B5Px2-VH (PPT-125)
 Packing0.37kg; 36pcs / 14.3kg / 0.79CUFT

Single Output

Model No.	Output	Tol.	R&N	Effi.
PPS-125-3.3	3.3V, 0~25A	±2%	100mV	70%
PPS-125-5	5V, 0~25A	±2%	100mV	79%
PPS-125-12	12V, 0~10.5A	±2%	100mV	80%
PPS-125-13.5	13.5V, 0~9.3A	±2%	100mV	80%
PPS-125-15	15V, 0~8.4A	±2%	100mV	80%
PPS-125-24	24V, 0~5.2A	±1%	150mV	83%
PPS-125-27	27V, 0~4.6A	±1%	150mV	83%
PPS-125-48	48V, 0~2.6A	±1%	250mV	84%

Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max
PPT-125A	3.3V, 1.0~12.5A	±3%	100mV	75%	99W
	5V, 0.8~10.0A	±5%	100mV		
	12V, 0.05~0.63A	±6%	120mV		
PPT-125B	5V, 1.0~14.38A	±3%	100mV	78%	124W
	12V, 0.3~3.75A	±5%	120mV		
	-12V, 0.05~0.63A	±6%	120mV		
PPT-125C	5V, 1.0~13.75A	±3%	100mV	78%	125W
	15V, 0.25~3.13A	±5%	150mV		
	-15V, 0.05~0.63A	±6%	150mV		
PPT-125D	5V, 1.0~8.75A	±3%	100mV	78%	126W
	24V, 0.25~3.13A	±5%	240mV		
	12V, 0.05~0.63A	±6%	120mV		

RCP-1600 Series

1600W AC-DC Rack Power

Under Development

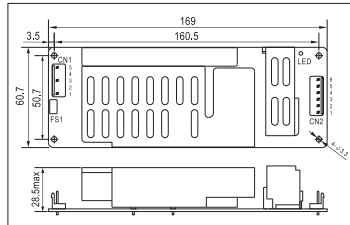
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- 1U low profile 41mm
- Built-in active PFC function
- High efficiency up to 93%
- Forced air cooling by built-in DC fan with fan speed control
- Vo and Io can be trimmed by external control signal
- Active current sharing
- Internal OR-ing FET, support hot-swap
- I²C, PMBus protocol
- Built-in remote ON-OFF control and remote sense function
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Protection: Short circuit / Overload / Over voltage / Over temperature
- DC OK signal, OTP alarm signal
- Output models: 12V/24V/48V
- Dimension(LxWxH): 320x85x41mm
- 3 years warranty

150W Single Output with PFC Function

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- High power density 8.4W/in³
- No load power consumption <1W
- 100% full load burn-in test
- 3 years warranty



169x 60.7x 28.5 mm



AC input voltage range 90~264VAC ; 127~370VDC
 DC adjustment range Can be modified between $\pm 10\%$ rated output voltage by factory
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 110%~135% rated output voltage
 Withstand voltage I/P-O/P: 4.25kVDC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards UL60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection 5+6P/3.96mm pitch, JST P/N :B5P/B6P-VH
 Packing 0.32kg ; 48pcs / 15.8kg / 0.79CUFT

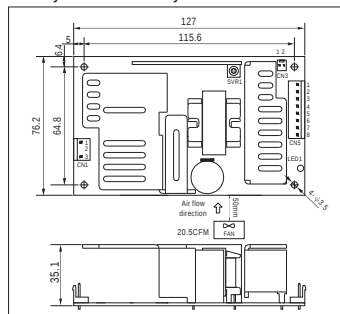
Model No.	Output	Tol.	R&N	Effi.
ASP-150-12	12V, 0~11A	$\pm 2\%$	150mV	88%
ASP-150-15	15V, 0~9.5A	$\pm 2\%$	180mV	88%
ASP-150-20	20V, 0~7.5A	$\pm 1\%$	200mV	90%
ASP-150-24	24V, 0~6.3A	$\pm 1\%$	240mV	90%
ASP-150-48	48V, 0~3.2A	$\pm 1\%$	240mV	89%

200W Single Output with PFC Function

- Universal AC input / Full range
- High efficiency up to 90%
- PF>0.98@115VAC; >0.93@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temp.
- High power density 9.78W/in³
- 5"x3" compact size
- ZVS technology to reduce power dissipation
- Built-in remote sense function
- Free air convection for 150W and 200W with 20.5 CFM forced air
- 3 years warranty



127x 76.2x 35.1 mm



AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -20~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection 3+8P/3.96mm pitch, JST B3P/B8P-VH
 Packing 0.37kg ; 36pcs / 14.3kg / 0.79CUFT

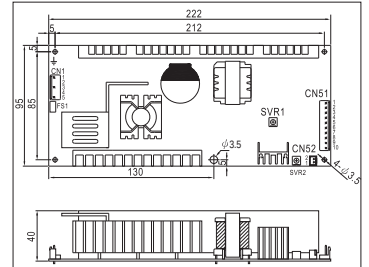
Model No.	Output	Tol.	R&N	Effi.
PPS-200-5	5V, 0~36.0A	$\pm 4\%$	100mV	86%
PPS-200-12	12V, 0~16.6A	$\pm 3\%$	100mV	89%
PPS-200-15	15V, 0~13.3A	$\pm 3\%$	100mV	89%
PPS-200-24	24V, 0~8.30A	$\pm 2\%$	150mV	89%
PPS-200-27	27V, 0~7.40A	$\pm 2\%$	150mV	89%
PPS-200-48	48V, 0~4.167A	$\pm 2\%$	250mV	90%

250W Isolated Dual Output with PFC Function

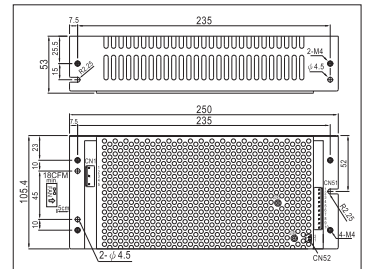
- Universal AC input / Full range
- Isolated output & GND for CH1,CH2
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Optional case available
- Cooling by free air convection
- Remote control function for CH1
- Peak load 170% for 10 sec. (CH1)
- 100% full load burn-in test
- 3 years warranty



222x 95x 40 mm



250x 105.4x 53 mm



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 58A at 230VAC
 Leakage current Less than 3.5mA at 240VAC
 DC adjustment range $\pm 10\%$ for CH1; $\pm 5\%$ for CH2
 Overload protection(CH1) 105%~170% normally operation, shut off after 10 sec.; >180%, constant current, shut off after 10 sec.
 (CH2) 101%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 115%~140%, CH2: 110%~135%
 Setup, rise, hold up time 1200ms, 60ms, 30ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3.0kVAC, I/P-FG: 2kVAC, 1minute
 Working temperature -20~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2
 Connection 5+10+2P/3.96mm pitch JST B5P/B10P-VH, B2B-XH
 Packing 0.74kg ; 18pcs / 14.3kg / 0.88CUFT (PCB type); 1.6kg ; 9pcs / 15.4kg / 0.61CUFT (Enclosed type)

Model No.	Output	Tol.	R&N	Effi.
PID-250A	12V, 0~15A	$\pm 3\%$	120mV	83%
	5V, 0~5.0A	$\pm 2\%$	50mV	
PID-250B	24V, 0~9.4A	$\pm 2\%$	150mV	86%
	5V, 0~5.0A	$\pm 2\%$	50mV	
PID-250C	36V, 0~6.3A	$\pm 2\%$	200mV	86%
	5V, 0~5.0A	$\pm 2\%$	50mV	
PID-250D	48V, 0~4.7A	$\pm 2\%$	200mV	86%
	5V, 0~5.0A	$\pm 2\%$	50mV	

► Feature Description

PID-250 series is suitable for motor-based equipment with logic control circuit. CH1 with high peak power capability can provide the required surge loading while starting up the motor. The isolated 5V/5A CH2 is good for logic control usage and can still work properly even CH1 is malfunction or at any protection modes. The isolated design between CH1 and CH2 can significantly prevent noise of the motor action from entering control circuits and hence secure the accurate operation of the end equipment.



Features

- Universal AC input / Full range
- Built-in active PFC function (LPP-100/150)
- Protections: Short circuit / Overload / Over voltage
- Optional over temperature protection for LPP-150
- Built-in remote ON/OFF control (LPS-50/75)
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty for LPS series
- 3 years warranty for LPP series

LPS-50	LPS-75	LPS/LPP-100	LPP-150

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		LPS-50	LPS-75	LPS-100	LPP-100	LPP-150	
AC input voltage range		90~264VAC		115/230 auto switch	85~264VAC		
AC inrush current (230VAC)		35A	36A	60A	30A	55A	
DC adjustment range		±10% rated output voltage			-5%~+10% rated output voltage		
Overload protection	Range	122%~160%	115%~150%	105%~140%	105%~150% rated output power		
	Type	Hiccup mode, auto recovery			Constant current limiting, auto recovery		
Over voltage protection	Range	110%~135% of rated output voltage				Shut off, AC recycle to re-start	
	Type	Hiccup mode, auto recovery					
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:1.5kVAC(2kVAC for LPP-150), O/P-FG: 0.5kVAC, 1 minute					
Working temperature		-20~+70℃ (refer to output derating curve)		-10~+60℃ (refer to output derating curve)			
Safety standards		UL60950-1, TUV EN60950-1 approved					
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11 (EN61000-6-2 heavy industry level for LPS-50/75 only)					
Connection		JST B5P / B4P-VH	JST B5P / B6P-VH	JST B5P / B8P-VH		JST B5P / B6Px2-VH	
Dimension (LxWxH)(mm)		195x 55x 23	222x 55x 30	222x 62x 32	222x 62x 33.6	222x 75x 41	
Packing		48pcs / 12.5kg	48pcs / 15.6kg	24pcs / 12.5kg	24pcs / 13.9kg	24pcs / 16.6kg	

50W LPS-50

Model No.	Output	Tol.	R&N	Effi.
LPS-50-3.3	3.3V, 0~10A	±3%	50mV	75%
LPS-50-5	5V, 0~10A	±3%	50mV	81%
LPS-50-12	12V, 0~4.2A	±2%	80mV	82%
LPS-50-15	15V, 0~3.4A	±2%	80mV	84%
LPS-50-24	24V, 0~2.1A	±1%	80mV	85%
LPS-50-48	48V, 0~1.1A	±1%	100mV	86%

75W LPS-75

Model No.	Output	Tol.	R&N	Effi.
LPS-75-3.3	3.3V, 0~15A	±3%	80mV	69%
LPS-75-5	5V, 0~15A	±3%	80mV	77%
LPS-75-12	12V, 0~6.2A	±2%	100mV	80%
LPS-75-15	15V, 0~5.0A	±2%	100mV	81%
LPS-75-24	24V, 0~3.2A	±2%	120mV	83%
LPS-75-48	48V, 0~1.56A	±2%	120mV	83%

100W LPS-100

Model No.	Output	Tol.	R&N	Effi.
LPS-100-3.3	3.3V, 0~20A	±3%	150mV	69%
LPS-100-5	5V, 0~20A	±3%	100mV	77%
LPS-100-7.5	7.5V, 0~13.3A	±2%	100mV	77%
LPS-100-12	12V, 0~8.4A	±2%	100mV	79%
LPS-100-13.5	13.5V, 0~7.5A	±2%	100mV	79%
LPS-100-15	15V, 0~6.7A	±2%	100mV	80%

LPS-100-24	24V, 0~4.2A	±1%	150mV	80%
LPS-100-27	27V, 0~3.8A	±1%	150mV	81%
LPS-100-48	48V, 0~2.1A	±1%	200mV	81%

100W (with PFC Function) LPP-100

Model No.	Output	Tol.	R&N	Effi.
LPP-100-3.3	3.3V, 0~20A	±2%	100mV	69%
LPP-100-5	5V, 0~20A	±2%	100mV	75%
LPP-100-7.5	7.5V, 0~13.5A	±2%	100mV	76%
LPP-100-12	12V, 0~8.5A	±2%	100mV	79%
LPP-100-13.5	13.5V, 0~7.5A	±2%	100mV	79%
LPP-100-15	15V, 0~6.7A	±2%	100mV	80%
LPP-100-24	24V, 0~4.2A	±1%	150mV	83%
LPP-100-27	27V, 0~3.8A	±1%	150mV	83%
LPP-100-48	48V, 0~2.1A	±1%	250mV	83%

150W (with PFC Function) LPP-150

Model No.	Output	Tol.	R&N	Effi.
LPP-150-3.3	3.3V, 0~30A	±2%	100mV	70%
LPP-150-5	5V, 0~30A	±2%	100mV	76%
LPP-150-7.5	7.5V, 0~20A	±2%	100mV	80%
LPP-150-12	12V, 0~12.5A	±2%	100mV	82%
LPP-150-13.5	13.5V, 0~11.2A	±2%	100mV	83%
LPP-150-15	15V, 0~10A	±2%	100mV	83%
LPP-150-24	24V, 0~6.3A	±1%	150mV	85%
LPP-150-27	27V, 0~5.6A	±1%	150mV	85%
LPP-150-48	48V, 0~3.2A	±1%	250mV	85%



IRM-05/10



IRM-15/20

Features

- Universal AC input / Full range
- No load power consumption < 0.1W
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation class II
- Fully isolated plastic case
- Withstand 5G vibration test
- Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty

IRM-05/10	IRM-15/20

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	IRM-05	IRM-10	IRM-15	IRM-20
AC input voltage range	85~264VAC; 120~370VDC			
AC inrush current (max.)	Cold start, 20A at 115VAC, 40A at 230VAC			
Overload protection	115%~260%	115%~190%		115%~160%
Over voltage protection	115%~135% rated output voltage			
Setup, rise, hold up time	600ms, 30ms, 80ms	600ms, 30ms, 30ms	1000ms, 20ms, 40ms	
Leakage current	Less than 0.25mA at 240VAC			
Withstand voltage	I/P-O/P: 3kVAC			
Working temperature	-30~+70°C (refer to output derating curve)			
Vibration	10~500Hz, 5G 10min./1 cycle, period for 60 min. each along X, Y, Z axes			
Safety standards	UL60950-1, TUV EN60950-1 approved			
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Connection	4 industrial pins			
Dimension (LxWxH)(mm)	45.7x 25.4x 21.5		52.4x 27.2x 24	

5W IRM-05

Model No.	Output	Tol.	R&N	Effi.
IRM-05-3.3	3.3V, 0~1.25A	±2.5%	200mV	68%
IRM-05-5	5V, 0~1A	±2.5%	200mV	71%
IRM-05-12	12V, 0~0.42A	±2.5%	200mV	75%
IRM-05-15	15V, 0~0.33A	±2.5%	200mV	75%
IRM-05-24	24V, 0~0.23A	±2.5%	200mV	77%

10W IRM-10

Model No.	Output	Tol.	R&N	Effi.
IRM-10-3.3	3.3V, 0~2.5A	±2.5%	200mV	74%
IRM-10-5	5V, 0~2A	±2.5%	200mV	77%
IRM-10-12	12V, 0~0.85A	±2.5%	200mV	82%
IRM-10-15	15V, 0~0.67A	±2.5%	200mV	82%
IRM-10-24	24V, 0~0.42A	±2.5%	200mV	82%

15W IRM-15

Model No.	Output	Tol.	R&N	Effi.
IRM-15-3.3	3.3V, 0~3.5A	±2.5%	200mV	74%
IRM-15-5	5V, 0~3A	±2.5%	200mV	78%
IRM-15-12	12V, 0~1.25A	±2.5%	200mV	82%
IRM-15-15	15V, 0~1A	±2.5%	200mV	82%
IRM-15-24	24V, 0~0.63A	±2.5%	200mV	83%

20W IRM-20

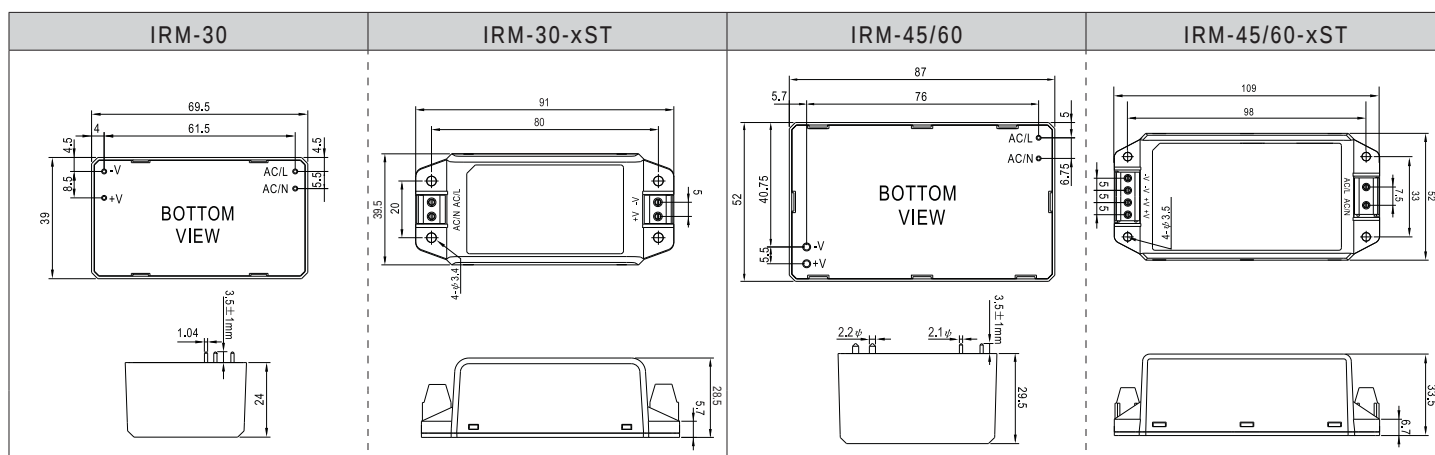
Model No.	Output	Tol.	R&N	Effi.
IRM-20-3.3	3.3V, 0~4.5A	±2.5%	200mV	76%
IRM-20-5	5V, 0~4A	±2.5%	200mV	79%
IRM-20-12	12V, 0~1.8A	±2.5%	200mV	84%
IRM-20-15	15V, 0~1.4A	±2.5%	200mV	84%
IRM-20-24	24V, 0~0.9A	±2.5%	200mV	85%

Green Open Frame 30~60W AC/DC Miniature Encapsulated Type



Features

- Universal AC input / Full range
- No load power consumption < 0.1W
- Miniature size, high power density
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Pass LPS (except for IRM-45/60 5V)
- Isolation class II
- Fully isolated plastic case
- Withstand 5G vibration test
- Screw terminal I/O connection models for ST type
- Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty



General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	IRM-30-x ST	IRM-45-x ST	IRM-60-x ST
AC input voltage range	85~264VAC; 120~370VDC		
AC inrush current (max.)	Cold start, 25A at 115VAC, 45A at 230VAC		Cold start, 30A at 115VAC, 60A at 230VAC
Overload protection	105%~160%		115%~160%
Over voltage protection	105%~135%		
Setup, rise, hold up time	1000ms, 30ms, 40ms at 230VAC		1000ms, 30ms, 50ms at 230VAC
Leakage current	Less than 0.25mA at 240VAC		
Withstand voltage	I/P-O/P: 3kVAC		
Working temperature	-30~+70°C (refer to output derating curve)		
Vibration	10~500Hz, 5G 10min./1 cycle, period for 60 min. each along X, Y, Z axes		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11		
Connection	4 industrial pins		
Dimension (LxWxH)(mm)	PCB mounting: 69.5x 39x 24; Screw I/O: 91x 39.5x 28.5		PCB mounting: 87x 52x 29.5; Screw I/O: 109x 52x 33.5

IRM-30 Series

Model No.	Output	Tol.	R&N	Effi.
IRM-30-5□	5V, 0~6A	±2.5%	120mV	83%
IRM-30-12□	12V, 0~2.5A	±2.5%	150mV	88%
IRM-30-15□	15V, 0~2A	±2.5%	200mV	88%
IRM-30-24□	24V, 0~1.3A	±2.5%	240mV	88.5%
IRM-30-48□	48V, 0~0.63A	±2.5%	300mV	90%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

IRM-45 Series

Model No.	Output	Tol.	R&N	Effi.
IRM-45-5□	5V, 0~8A	±2.5%	80mV	83.5%
IRM-45-12□	12V, 0~3.8A	±2.5%	150mV	87.5%
IRM-45-15□	15V, 0~3A	±2.5%	180mV	88.5%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

Model No.	Output	Tol.	R&N	Effi.
IRM-45-24□	24V, 0~1.9A	±2.5%	200mV	89.5%
IRM-45-48□	48V, 0~0.94A	±2.5%	300mV	90.5%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style

IRM-60 Series

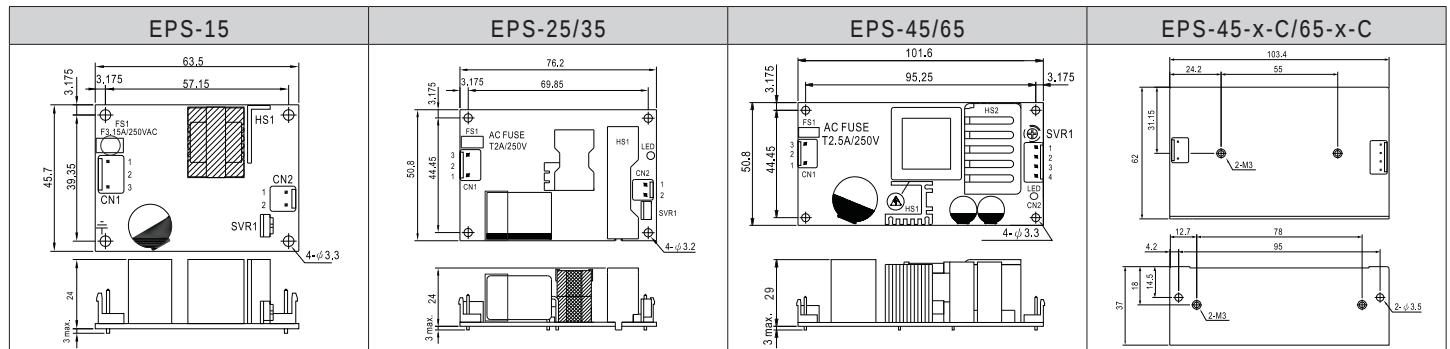
Model No.	Output	Tol.	R&N	Effi.
IRM-60-5□	5V, 0~10A	±2.5%	80mV	84%
IRM-60-12□	12V, 0~5A	±2.5%	120mV	87.5%
IRM-60-15□	15V, 0~4A	±2.5%	120mV	89%
IRM-60-24□	24V, 0~2.5A	±2.5%	150mV	90%
IRM-60-48□	48V, 0~1.25A	±2.5%	240mV	91%

□ = Blank, ST ; Blank: PCB mounting style, ST: Screw terminal style



Features

- Universal AC input / Full range
- **No load power consumption < 0.3W**
- High efficiency up to 90%
- Compact size
- Cooling by free air convection
- Protections: Short circuit / Overload / Over voltage
- **Case available (EPS-45-x-C & EPS-65-x-C)**
- LED indicator for power on (except for EPS-15)
- 3 years warranty



General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		EPS-15	EPS-25	EPS-35	EPS-45-x(-C)	EPS-65-x(-C)
AC input voltage range		85~264VAC; 120~370VDC			90~264VAC; 127~370VDC	
AC inrush current (max.)		Cold start, 45A at 230VAC	Cold start, 35A at 230VAC	Cold start, 40A at 230VAC	Cold start, 60A at 230VAC	
DC adjustment range		±10% rated output voltage				
Overload protection	Range	115%~150% rated output power	115%~170% rated output power		115%~160% rated output power	
	Type	Hiccup mode, auto recovery				
Over voltage protection		110%~135%	110%~140%		110%~135%	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG:2kVAC, O/P-FG: 0.5kVAC, 1 minute				
Working temperature		-30~+70°C (refer to output derating curve)				
Safety standards		UL60950-1, TUV EN60950-1 approved				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11				
Connection		3+2P/3.96mm pitch, JST B3P/B2P-VH			3+4P/3.96mm pitch, JST B3P/B4P-VH	
Dimension (LxWxH)(mm)		63.5x45.7x24	76.2x50.8x24		PCB: 101.6x50.8x29 ; Case: 103.4x62x37	

15W EPS-15

Model No.	Output(Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-15-3.3	3.3V, 0~3A / 3.3A	±2%	50mV	75%
EPS-15-5	5V, 0~3A / 3.3A	±2%	50mV	78%
EPS-15-7.5	7.5V, 0~2A / 2.2A	±2%	80mV	81%
EPS-15-12	12V, 0~1.25A / 1.38A	±1%	80mV	82%
EPS-15-15	15V, 0~1A / 1.1A	±1%	100mV	83%
EPS-15-24	24V, 0~0.625A / 0.69A	±1%	150mV	83%
EPS-15-27	27V, 0~0.56A / 0.615A	±1%	180mV	84%
EPS-15-36	36V, 0~0.42A / 0.46A	±1%	200mV	85%
EPS-15-48	48V, 0~0.313A / 0.344A	±1%	200mV	85%

25W EPS-25

Model No.	Output(Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-25-3.3	3.3V, 0~5A / 5.5A	±2%	60mV	79%
EPS-25-5	5V, 0~5A / 5.5A	±2%	60mV	81%
EPS-25-7.5	7.5V, 0~3.4A / 3.74A	±2%	80mV	83%
EPS-25-12	12V, 0~2.1A / 2.34A	±1%	100mV	86%
EPS-25-15	15V, 0~1.7A / 1.87A	±1%	100mV	87%
EPS-25-24	24V, 0~1.05A / 1.17A	±1%	180mV	88%
EPS-25-27	27V, 0~0.95A / 1.05A	±1%	180mV	89%
EPS-25-36	36V, 0~0.7A / 0.78A	±1%	200mV	89%
EPS-25-48	48V, 0~0.53A / 0.59A	±1%	240mV	90%

35W EPS-35

Model No.	Output(Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-35-3.3	3.3V, 0~6A / 6.6A	±2.5%	60mV	80%
EPS-35-5	5V, 0~6A / 6.6A	±2.0%	70mV	82%
EPS-35-7.5	7.5V, 0~4.7A / 5.2A	±2.0%	80mV	84%
EPS-35-12	12V, 0~3A / 3.3A	±1.0%	100mV	87%
EPS-35-15	15V, 0~2.4A / 2.65A	±1.0%	100mV	88%

Model No.	Output(Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-35-24	24V, 0~1.5A / 1.65A	±1%	180mV	89%
EPS-35-27	27V, 0~1.3A / 1.45A	±1%	180mV	89%
EPS-35-36	36V, 0~1A / 1.1A	±1%	200mV	89%
EPS-35-48	48V, 0~0.75A / 0.82A	±1%	240mV	90%

45W EPS-45

Model No.	Output(Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-45-3.3□	3.3V, 0~8A / 9A	±3%	80mV	80%
EPS-45-5□	5V, 0~8A / 9A	±2%	80mV	82%
EPS-45-7.5□	7.5V, 0~5.4A / 6A	±2%	100mV	84%
EPS-45-12□	12V, 0~3.75A / 4.2A	±2%	120mV	87%
EPS-45-15□	15V, 0~3A / 3.3A	±2%	150mV	88%
EPS-45-24□	24V, 0~1.9A / 2.1A	±1%	240mV	89%
EPS-45-36□	36V, 0~1.25A / 1.4A	±1%	280mV	89%
EPS-45-48□	48V, 0~1A / 1.1A	±1%	300mV	90%

□ = blank, -C ; blank: PCB type, -C: Enclosed type

65W EPS-65

Model No.	Output(Rated / Peak 10 sec.)	Tol.	R&N	Effi.
EPS-65-3.3□	3.3V, 0~11A / 12A	±3%	80mV	80%
EPS-65-5□	5V, 0~11A / 12A	±2%	80mV	82%
EPS-65-7.5□	7.5V, 0~8A / 8.8A	±2%	100mV	84%
EPS-65-12□	12V, 0~5.42A / 6A	±2%	120mV	86%
EPS-65-15□	15V, 0~4.34A / 4.8A	±2%	150mV	87%
EPS-65-24□	24V, 0~2.71A / 3A	±1%	240mV	88%
EPS-65-36□	36V, 0~1.81A / 2A	±1%	280mV	89%
EPS-65-48□	48V, 0~1.36A / 1.5A	±1%	300mV	90%

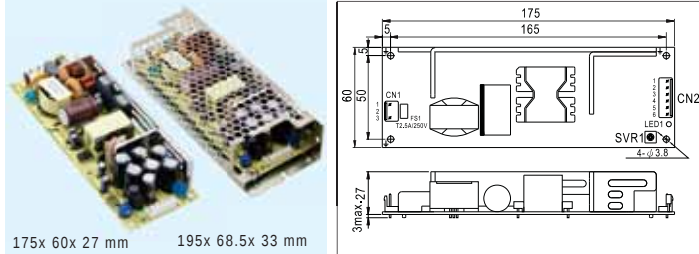
□ = blank, -C ; blank: PCB type, -C: Enclosed type

75W Single Output with PFC Function

- Universal AC input / Full range
- Built-in active PFC function
- **No load power consumption <0.5W**
- High efficiency up to 90%
- Cooling by free air convection



- Protections:
Short circuit / Overload /
Over voltage
- **Case available (ELP-75-x-C)**
- LED indicator for power on
- 1U low profile
- 3 years warranty



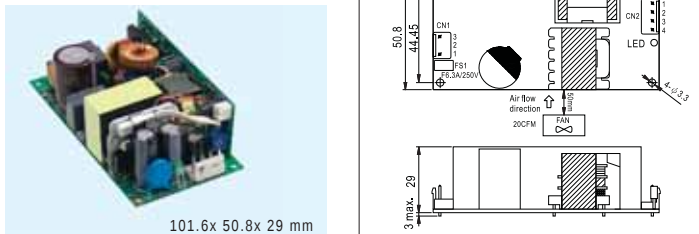
AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 60A at 230VAC
 DC adjustment range $\pm 10\%$ rated output voltage
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Leakage current Less than 1mA at 240VAC
 Setup, rise, hold up time 2500ms, 50ms, 20ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards UL60905-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
ELP-75-3.3□	3.3V, 0~15A	$\pm 3\%$	80mV	80%
ELP-75-5□	5V, 0~15A	$\pm 2\%$	80mV	82%
ELP-75-12□	12V, 0~6.25A	$\pm 2\%$	120mV	89%
ELP-75-15□	15V, 0~5A	$\pm 2\%$	150mV	90%
ELP-75-24□	24V, 0~3.15A	$\pm 1\%$	240mV	90%
ELP-75-36□	36V, 0~2.1A	$\pm 1\%$	280mV	90%
ELP-75-48□	48V, 0~1.6A	$\pm 1\%$	300mV	90%

□ = blank, -C ; blank: PCB type, -C: Enclosed type

100W Single Output with PFC Function

- 4"x 2" compact size
- Universal AC input / Full range
- Built-in active PFC function
- **No load power consumption <0.5W**
- High efficiency up to 92.5%
- Free air convection for 75W and 100W with 20 CFM forced air
- Protections:
Short circuit / Overload /
Over voltage / Over temperature
- 12V/0.3A auxiliary output
- LED indicator for power on
- 3 years warranty



AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range $\pm 2\%$ ~ $\pm 5\%$ rated output voltage
 Overload protection 105%~145% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
EPP-100-12	12V, 0~8.5A	$\pm 2\%$	120mV	91.0%
EPP-100-15	15V, 0~6.67A	$\pm 2\%$	150mV	91.0%
EPP-100-24	24V, 0~4.2A	$\pm 1\%$	240mV	92.0%
EPP-100-27	27V, 0~3.71A	$\pm 1\%$	240mV	92.5%
EPP-100-48	48V, 0~2.1A	$\pm 1\%$	300mV	92.5%

150W Single Output with PFC Function

- 4"x 2" compact size
- Universal AC input / Full range
- Built-in active PFC function
- **No load power consumption <0.5W**
- High efficiency up to 93%
- Free air convection for 100W and 150W with 20 CFM forced air
- Protections:
Short circuit / Overload /
Over voltage / Over temperature
- 12V/0.3A auxiliary output
- High power density 16.42W/in³
- LED indicator for power on
- 3 years warranty



AC input voltage range ... 90~264VAC; 127~370VDC
 DC adjustment range $\pm 2\%$ ~ $\pm 5\%$ rated output voltage
 Overload protection 105%~145% hiccup mode, auto-recovery
 Over voltage protection ... 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11

Connection 3+4 P / 3.96mm pitch, JST B3P / B4P-VH

Model No.	Output	Tol.	R&N	Effi.
EPP-150-12	12V, 0~12.5A	$\pm 2\%$	130mV	91.5%
EPP-150-15	15V, 0~10.0A	$\pm 2\%$	150mV	92.0%
EPP-150-24	24V, 0~6.25A	$\pm 1\%$	240mV	93.0%
EPP-150-27	27V, 0~5.56A	$\pm 1\%$	240mV	92.0%
EPP-150-48	48V, 0~3.125A	$\pm 1\%$	300mV	92.0%

300W Single Output with PFC Function

- 5"x 3" compact size
- Universal AC input / Full range
- Built-in active PFC function
- **No load power consumption <0.5W by PS-ON control**
- High efficiency up to 93%
- Free air convection for 200W and 300W with 20.5 CFM forced air
- Protections:
Short circuit / Overload /
Over voltage / Over temperature
- Withstand 300VAC surge input for 5 seconds
- 12V/0.5A auxiliary output
- Standby 5V@1A
- Built-in remote sense function
- High power density 14.5W/in³
- LED indicator for power on
- 3 years warranty



AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range $\pm 5\%$ rated output voltage
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 conduction class B, radiation class A,
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
EPP-300-12	12V, 0~25.0A	$\pm 3\%$	120mV	90.0%
EPP-300-15	15V, 0~20.0A	$\pm 3\%$	120mV	90.0%
EPP-300-24	24V, 0~12.5A	$\pm 2\%$	150mV	92.5%
EPP-300-27	27V, 0~11.12A	$\pm 2\%$	200mV	93.0%
EPP-300-48	48V, 0~6.25A	$\pm 2\%$	250mV	93.0%



■ Features

- Interchangeable AC plugs (plug kit sold separately)
- Universal AC input / Full range
- No load power consumption <0.3W
- Energy efficiency Level V
- Comply with EISA 2007 and EU ErP
- Class II power (without earth pin)
- Protections: Short circuit / Over voltage / Overload
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- Approvals: UL / CUL / TUV / CCC / RCM / CB / FCC / CE
- 2 years warranty

■ General Specification (Please refer to www.meanwell.com for detail spec.)



AC input voltage range	90~264VAC / 0.4A for GE12; 90~264VAC / 0.7A for GE18/24
AC inrush current (max.)	Cold start, 40A at 100VAC; 80A at 230VAC
Overload protection	Hiccup mode, auto-recovery
Over voltage protection	115%~135% rated output voltage
Setup, rise, hold up time	4000ms, 100ms, 30ms at 230VAC input
Withstand voltage	I/P-O/P:4242VDC, 1 minute
Working temperature	-10~+50°C (refer to output derating curve)
Safety standards	UL60950-1, CSA22.2, TUV EN60950-1, CCC GB4943, AS/NZS 60950.1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part15 class B, GB9254
Length of output cable	150cm of AWM2468, 20AWG for GE12 ; 150cm of AWM2468, 18AWG for GE18/24
Standard DC plug	P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 57 for DC plug list)

■ Wall-mounted (Interchangeable Type)—12W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE12I05-P1J	5V, 0~2.00A	±5%	50mV	74%
GE12I07-P1J	7.5V, 0~1.33A	±5%	75mV	77%
GE12I09-P1J	9V, 0~1.33A	±5%	100mV	79%
GE12I12-P1J	12V, 0~1.00A	±3%	120mV	81%
GE12I15-P1J	15V, 0~0.80A	±3%	150mV	82%
GE12I18-P1J	18V, 0~0.83A	±3%	180mV	83%
GE12I24-P1J	24V, 0~0.625A	±3%	240mV	83%

■ Wall-mounted (Interchangeable Type)—18W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE18I05-P1J	5V, 0~2.40A	±5%	50mV	75%
GE18I07-P1J	7.5V, 0~1.73A	±5%	75mV	79%
GE18I09-P1J	9V, 0~2.00A	±5%	100mV	81%
GE18I12-P1J	12V, 0~1.50A	±3%	120mV	82%
GE18I15-P1J	15V, 0~1.20A	±3%	150mV	84%
GE18I18-P1J	18V, 0~1.00A	±3%	180mV	84%
GE18I24-P1J	24V, 0~0.75A	±3%	240mV	85%
GE18I48-P1J	48V, 0~0.375A	±3%	300mV	85%

■ Wall-mounted (Interchangeable Type)—24W

Order No. (Main body)	Output	Tol.	R&N	Effi.
GE24I05-P1J	5V, 0~3.00A	±5%	50mV	76.5%
GE24I07-P1J	7.5V, 0~2.00A	±5%	75mV	79.5%
GE24I09-P1J	9V, 0~2.22A	±5%	100mV	81.5%
GE24I12-P1J	12V, 0~2.00A	±3%	120mV	82.5%
GE24I15-P1J	15V, 0~1.60A	±3%	150mV	84.0%
GE24I18-P1J	18V, 0~1.33A	±3%	180mV	84.0%
GE24I24-P1J	24V, 0~1.00A	±3%	240mV	85.0%
GE24I48-P1J	48V, 0~0.50A	±3%	300mV	85.0%

► Interchangeable AC Plug Specifically for GE12/18/24

AC Plug Type		
AC Plug Order No.	AC Plug-AU	AC Plug-UK
AC Plug Type		
AC Plug Order No.	AC Plug-EU	AC Plug-US
Mix Four Type		
AC Plug Order No.	AC Plug-MIX	

Note: Main body unit and AC plug should be ordered separately; The main body needs to be used along with any of the AC plug.

6W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.3W
- **Energy efficiency Level V**
- Comply with EISA 2007 and EU ErP
- 2 pole US / European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- Approvals: UL/CUL/CB/FCC/CE for GS06U
TUV/CB/FCC/CE for GS06E
- 2 years warranty



AC input voltage range 90~264VAC ; 127~370VDC
 AC inrush current(max.) .. Cold start, 50A at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection ... Clamp by zener diode >120%
 Withstand voltage I/P-O/P: 4242VDC, 1minute
 Working temperature 0~+50°C (refer to output derating curve)
 Safety standards UL60950-1, CSA 22.2, TUV EN60950-1
 EMC standards EN55022, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, FCC part 15 class B
 Length of output cable 180cm of UL1185, 20AWG

Order No.	Output	Tol.	R&N	Effi.
GS06□-1P1J	5V, 0~1.00A	±5%	50mV	68%
GS06□-11P1J	7.5V, 0~0.80A	±5%	80mV	74%
GS06□-2P1J	9V, 0~0.66A	±5%	80mV	75%
GS06□-3P1J	12V, 0~0.50A	±3%	100mV	77%
GS06□-4P1J	15V, 0~0.40A	±3%	120mV	78%
GS06□-5P1J	18V, 0~0.33A	±3%	150mV	78%
GS06□-6P1J	24V, 0~0.25A	±2%	180mV	82%
GS06□-8P1J	48V, 0~0.125A	±2%	200mV	84%

□ = U/E ; U: American 2P, E: European 2P

12W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.3W
- **Energy efficiency Level V**
- Comply with EISA 2007 and EU ErP
- 2 pole US / European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Pass LPS
- Fully enclosed plastic case
- Approvals: UL/CUL/BSMI/CB/FCC for GS12U
TUV/CB/CE for GS12E
- 2 years warranty



AC input voltage range 90~264VAC ; 127~370VDC
 AC inrush current(max.) .. Cold start, 45A at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection ... 115%~135% clamp by zener diode
 Withstand voltage I/P-O/P: 3kVAC, 1minute
 Working temperature 0~+50°C (refer to output derating curve)
 Safety standards UL60950-1, CSA 22.2, BSMI CNS14336, TUV EN60950-1
 EMC standards EN55022, EN61204-3, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part15 class B

Order No.	Output	Tol.	R&N	Effi.
GS12□ 05-P1I	5V, 0~2.00A	±5%	75mV	76.0%
GS12□ 07-P1I	7.5V, 0~1.60A	±4%	90mV	78.5%
GS12□ 09-P1I	9V, 0~1.33A	±4%	90mV	78.5%
GS12□ 12-P1I	12V, 0~1.00A	±3%	120mV	78.5%
GS12□ 15-P1I	15V, 0~0.80A	±3%	150mV	80.0%
GS12□ 18-P1I	18V, 0~0.67A	±3%	180mV	80.0%
GS12□ 24-P1I	24V, 0~0.50A	±3%	200mV	80.5%

□ = U/E ; U: American 2P, E: European 2P

5W Green USB Adaptor



- Universal AC input / Full range
- No load power consumption < 0.3W
- **Energy efficiency Level V**
- Comply with EISA 2007 and EU ErP
- Compact size
- 2 pole US / European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Pass LPS
- Fully enclosed plastic case
- 2 years warranty

AC input voltage range 90~264VAC ; 127~370VDC
 Overload protection 105%~135% rated output power, hiccup mode, auto-recovery
 Over voltage protection 105%~200% rated output voltage, hiccup mode, auto-recovery
 Withstand voltage I/P-O/P: 4242VDC, 1 minute
 Working temperature -20~+50°C (refer to output derating curve)
 Safety standards U-Type: UL60950-1, CSA22.2 approved
 E-Type: TUV EN60950-1 approved
 EMC standards FCC part15 class B(U Type); EN55022 class B(E Type)
 Standard DC plug USB Type A

Order No.	Output	Tol.	R&N	Effi.
GS05U-USB	5V, 0~1A	±4%	90mV	69%
GS05E-USB	5V, 0~1A	±4%	80mV	71%

15W Green Adaptor

- Universal AC input / Full range
- No load power consumption < 0.3W
- **Energy efficiency Level V**
- Comply with EISA 2007 and EU ErP
- Pass LPS
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Approvals: UL/CUL/TUV/CB/FCC/CE for GS15A/B
TUV/CB/FCC/CE for GS15E
UL/CUL/CB/FCC/CE for GS15U
- 2 years warranty



AC input voltage range 90~264VAC ; 127~370VDC
 AC inrush current(max.) Cold start, 50A at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection Clamp by zener diode > 120%
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature 0~+50°C (refer to output derating curve)
 Safety standards UL60950-1, CSA 22.2, TUV EN60950-1 approved
 EMC standards EN55022-B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11, FCC part 15 class B
 Length of output cable 180cm of UL1185, 18AWG
 Standard DC plug P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 57 for DC plug list)

Order No.	Output	Tol.	R&N	Effi.
GS15□-1P1J	5.0V, 0~2.40A	±5%	50mV	75%
GS15□-11P1J	7.5V, 0~1.60A	±5%	80mV	78%
GS15□-2P1J	9.0V, 0~1.66A	±5%	80mV	80%
GS15□-3P1J	12V, 0~1.25A	±3%	80mV	80%
GS15□-4P1J	15V, 0~1.00A	±3%	100mV	80%
GS15□-5P1J	18V, 0~0.83A	±3%	120mV	81%
GS15□-6P1J	24V, 0~0.62A	±2%	150mV	83%
GS15□-8P1J	48V, 0~0.31A	±2%	240mV	85%

□ = A/B/E/U ; A: IEC320-C14, B: IEC320-C8
 E: European 2P, U: American 2P



GS18/25A
93x 54x 36 mm



GS18/25B
79x 54x 33 mm



GS18/25/36U
79x 54x 33 mm



GS18/25/36E
79x 54x 33 mm

Features

- Universal AC input / Full range
- No load power consumption < 0.3W
- **Energy efficiency Level V**
- Comply with EISA 2007, NRCAN, AU/NZ MEPS and EU ErP
- 2 pole USA / EURO plug or IEC320-C14/C8
- Class II power (without earth pin) for B/U/E type
- Class I power (with earth pin) only for A type
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on (except for GS36)
- Pass LPS
- Approvals:
A type: UL / CUL / TUV / BSMI / CCC / PSE / CB / FCC / CE
B type: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
U type: UL / CUL / BSMI / CB / FCC
E type: TUV / CB / CE
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Order No.	GS18	GS25	GS36
AC input voltage range	90~264VAC ; 135~370VDC		
AC inrush current (max.)	Cold start, 45A at 230VAC		Cold start, 60A at 230VAC
Overload protection	Range		110%~250% rated output power
	Type		Hiccup mode, auto-recovery
Over voltage protection	105%~135% rated output voltage, clamp by zener diode		
Withstand voltage	I/P-O/P: 4242VDC, 1 minute		
Working temperature	0~+50°C (refer to output derating curve)		-20~+50°C (refer to output derating curve)
Safety standards	A-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, PSE J60950-1(GS18A/GS25A-5V~28V only), CCC GB4943 approved		
	B-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved		
	U-Type: UL60950-1, CSA22.2, BSMI CNS14336 approved		
	E-Type: TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11(A/B/E type); FCC part 15 class B, CNS13438(A/B/U type); GB9254(A/B type)		
Length of output cable	120cm of 16AWG for 5~12V ; 180cm of UL1185, 18AWG for 15~48V		100cm of UL1185, 16AWG
Standard DC plug	P1J: 2.1x5.5x11mm / C+, tuning fork type (refer to page 57 for DC plug list)		

Desktop / Wall-mounted — 18W



Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GS18□05-P1J	5V, 0~3.00A	±5%	50mV	79.5%	GS18□24-P1J	24V, 0~0.75A	±2%	180mV	86.0%
GS18□07-P1J	7.5V, 0~2.00A	±5%	80mV	82.0%	GS18□28-P1J	28V, 0~0.64A	±2%	240mV	86.5%
GS18□09-P1J	9V, 0~2.00A	±5%	80mV	83.0%	GS18□48-P1J	48V, 0~0.375A	±2%	240mV	87.0%
GS18□12-P1J	12V, 0~1.50A	±3%	80mV	85.0%	□ = A / B / U / E Class I — A: IEC320-C14 Class II — B: IEC320-C8, U: American 2P, E: European 2P				
GS18□15-P1J	15V, 0~1.20A	±3%	100mV	85.0%					
GS18□18-P1J	18V, 0~1.00A	±3%	150mV	85.0%					

Desktop / Wall-mounted — 25W



Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GS25□05-P1J	5V, 0~4.00A	±5%	50mV	78.5%	GS25□24-P1J	24V, 0~1.04A	±2%	180mV	85.5%
GS25□07-P1J	7.5V, 0~2.93A	±5%	80mV	81.5%	GS25□28-P1J	28V, 0~0.89A	±2%	240mV	85.5%
GS25□09-P1J	9V, 0~2.77A	±5%	80mV	82.5%	GS25□48-P1J	48V, 0~0.52A	±2%	240mV	87.0%
GS25□12-P1J	12V, 0~2.08A	±3%	80mV	84.5%	□ = A / B / U / E Class I — A: IEC320-C14 Class II — B: IEC320-C8, U: American 2P, E: European 2P				
GS25□15-P1J	15V, 0~1.66A	±3%	100mV	84.5%					
GS25□18-P1J	18V, 0~1.38A	±3%	150mV	84.5%					

Wall-mounted — 36W



Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GS36□05-P1J	5V, 0~4.50A	±5%	90mV	76.5%	GS36□24-P1J	24V, 0~1.50A	±2%	180mV	85.5%
GS36□09-P1J	9V, 0~3.50A	±5%	90mV	81.5%	GS36□48-P1J	48V, 0~0.75A	±2%	240mV	87.5%
GS36□12-P1J	12V, 0~3.00A	±3%	100mV	84.5%	□ = U / E ; U: American 2P, E: European 2P				



■ Features

- Universal AC input / Full range
- No load power consumption <0.3W for GS40/60; <0.5W for GS90/120
- **Energy efficiency Level V**
- Comply with EISA 2007, NRCAN, AU/NZ MEPS and EU ErP
- Built-in active PFC function for GS90/120
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Over voltage / Overload / Over temp. (except for GS40)
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS (except for GS120)
- 2 years warranty

■ General Specification



Order No.		GS40A	GS60A	GS90A	GS120A
AC input voltage range		90~264VAC ; 127~370VDC			85~264VAC ; 120~370VDC
AC inrush current (max.)		Cold start, 65A at 230VAC		Cold start, 70A at 230VAC	
Overload protection	Range	105%~150% rated output power		110%~150%	105%~160%
	Type	Hiccup mode, auto-recovery			
Over voltage protection		105%~135% rated output voltage			
Setup, rise, hold up time		1000ms, 30ms, 50ms at 230VAC input		1000ms, 20ms, 20ms at 230VAC input	2000ms, 30ms, 20ms at 230VAC input
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			I/P-FG: 3kVAC
Working temperature		-30~+60°C		-30~+50°C	-30~+70°C
Safety standards		UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1(except for 48V) approved			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, CNS13438, GB9254, FCC part15 class B			
Length of output cable		GS40: 100cm of UL1185, 16AWG for 5~15V; 180cm of UL1185, 18AWG for 18~48V GS60: 100cm of UL2464, 16AWG for 5~9V; 100cm of UL1185, 16AWG for 12~15V; 180cm of UL1185, 18AWG for 18~48V		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V 120cm of UL2464, 18AWGx4C	
Standard DC plug (refer to page 57 for DC plug list)		P1J: 2.1øx5.5øx11mm / C+, tuning fork type		P1M: 2.5øx5.5øx11mm / C+, tuning fork type R7B: Power DIN 4P with lock type P1M: 2.5øx5.5øx11mm/C+, tuning fork type (20~48V only)	

■ Desktop (IEC 320-C14 / Class I) — 40W

Order No.	Output	Tol.	R&N	Effi.
GS40A05-P1J	5V, 0~5.00A	±5%	100mV	80.5%
GS40A07-P1J	7.5V, 0~5.34A	±5%	100mV	85.5%
GS40A09-P1J	9V, 0~4.45A	±5%	100mV	85.0%
GS40A12-P1J	12V, 0~3.34A	±3%	100mV	89.0%
GS40A15-P1J	15V, 0~2.67A	±3%	100mV	89.5%
GS40A18-P1J	18V, 0~2.22A	±3%	150mV	90.0%
GS40A24-P1J	24V, 0~1.67A	±2.5%	180mV	91.0%
GS40A48-P1J	48V, 0~0.84A	±2.5%	240mV	92.0%

■ Desktop (IEC 320-C14 / Class I) — 60W

Order No.	Output	Tol.	R&N	Effi.
GS60A05-P1J	5V, 0~6.00A	±5%	100mV	81.0%
GS60A07-P1J	7.5V, 0~6.00A	±5%	100mV	85.5%
GS60A09-P1J	9V, 0~6.00A	±5%	100mV	87.5%
GS60A12-P1J	12V, 0~5.00A	±3%	100mV	88.0%
GS60A15-P1J	15V, 0~4.00A	±3%	100mV	88.5%
GS60A18-P1J	18V, 0~3.33A	±3%	150mV	88.5%
GS60A24-P1J	24V, 0~2.50A	±3%	180mV	90.0%
GS60A48-P1J	48V, 0~1.25A	±2.5%	240mV	92.0%

■ Desktop (IEC 320-C14 / Class I) — 90W

Order No.	Output	Tol.	R&N	Effi.
GS90A12-P1M	12V, 0~6.67A	±5%	80mV	88.0%
GS90A15-P1M	15V, 0~6.00A	±5%	100mV	89.0%
GS90A19-P1M	19V, 0~4.74A	±4%	150mV	89.0%
GS90A24-P1M	24V, 0~3.75A	±3%	180mV	89.5%
GS90A48-P1M	48V, 0~1.87A	±2%	240mV	91.0%

■ Desktop (IEC 320-C14 / Class I) — 120W

Order No.	Output	Tol.	R&N	Effi.
GS120A12-R7B	12V, 0~8.5A	±5%	80mV	87.5%
GS120A15-R7B	15V, 0~7.0A	±5%	120mV	89.0%
GS120A20-□	20V, 0~6.0A	±5%	150mV	89.0%
GS120A24-□	24V, 0~5.0A	±3%	180mV	90.0%
GS120A48-□	48V, 0~2.5A	±2%	240mV	91.0%
□= P1M / R7B				

Industrial Adaptor 160~280W Single Output



■ Features

- Universal AC input / Full range
- No load power consumption < 0.5W
- **Energy efficiency Level V**
- Comply with EISA 2007, NRCAN, AU/NZ MEPS and EU ErP
- Built-in active PFC function
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- **Fanless design, high operating temperature up to +70°C**
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- 2 years warranty

■ General Specification



(except for GS280-20/24/48V)



(except for 48V)



Order No.		GS160A	GS220A	GS280A
AC input voltage range		85~264VAC ; 120~370VDC	90~264VAC ; 127~370VDC	
AC inrush current (max.)		Cold start, 120A at 230VAC		
Overload protection	Range	105%~135% rated output power		
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	105%~135% rated output power		
	Type	Shut down o/p voltage, re-power on to recover		
Hold up time		20ms at full load		16ms at full load
Withstand voltage		I/P-O/P: 3kVAC, 1 minute		
Working temperature		-30~+70°C	-30~+60°C (refer to output derating curve)	
Safety standards		UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1(except for 48V) approved		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part 15 class B, CNS13438, GB9254		
Length of output cable		120cm of UL2464, 18AWGx4C	100cm of UL2464, 16AWGx4C	
Standard DC plug (refer to page 57 for DC plug list)		R7B: Power DIN 4P with lock type		4P/6.35mm pitch, AMP 1-480702-0 (power supply side); AMP 1-480703-0(customer side, not provided with GS280)

■ Desktop (IEC320-C14/Class I) — 160W

Order No.	Output	Tol.	R&N	Effi.
GS160A12-R7B	12V, 0~11.5A	±5%	80mV	89.0%
GS160A15-R7B	15V, 0~9.6A	±5%	100mV	90.0%
GS160A20-R7B	20V, 0~8.0A	±4%	150mV	92.0%
GS160A24-R7B	24V, 0~6.67A	±3%	180mV	92.5%
GS160A48-R7B	48V, 0~3.34A	±3%	240mV	94.0%

■ Desktop (IEC320-C14/Class I) — 280W

Order No.	Output	Tol.	R&N	Effi.
GS280A12-C4P	12V, 0~18.5A	±5%	120mV	89.0%
GS280A15-C4P	15V, 0~16A	±5%	120mV	89.5%
GS280A20-C4P	20V, 0~13A	±4%	150mV	92.0%
GS280A24-C4P	24V, 0~11.67A	±3%	280mV	93.0%
GS280A48-C4P	48V, 0~5.84A	±2%	280mV	94.0%

■ Desktop (IEC320-C14/Class I) — 220W

Order No.	Output	Tol.	R&N	Effi.
GS220A12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GS220A15-R7B	15V, 0~13.4A	±5%	100mV	90.0%
GS220A20-R7B	20V, 0~11.0A	±4%	150mV	92.0%
GS220A24-R7B	24V, 0~9.20A	±3%	180mV	93.5%
GS220A48-R7B	48V, 0~4.60A	±2%	240mV	94.5%



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NEW



GST18/25A
93x 54x 36 mm



GST18/25/36B
79x 54x 33 mm



GST18/25/36U
79x 54x 33 mm



GST18/25/36E
79x 54x 33 mm

Features

- Universal AC input / Full range
- No load power consumption < 0.075W
- **Energy efficiency Level VI**
- Comply with EISA 2007 / DoE, NRCAN, AU/NZ MEPS, EU ErP and CoC Version 5
- 2 pole USA / EURO plug or IEC320-C14/C8
- Class II power (without earth pin) for B/U/E type
- Class I power (with earth pin) only for A type
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS
- Approvals:
 - A type: UL / CUL / TUV / BSMI / CCC / PSE / CB / FCC / CE
 - B type: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
 - U type: UL / CUL / BSMI / CB / FCC
 - E type: TUV / CB / CE
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

Order No.		GST18	GST25	GST36
AC input voltage range		85~264VAC		
AC inrush current (max.)		Cold start, 70A at 230VAC		
Overload protection	Range	110%~150% rated output power		110%~250% rated output power
	Type	Hiccup mode, auto-recovery		
Over voltage protection		110%~140% rated output voltage, clamp by zener diode		
Withstand voltage		I/P-O/P: 4242VDC, 1 minute		
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		A-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, PSE J60950-1, CCC GB4943 approved B-Type: UL60950-1, CSA 22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved U-Type: UL60950-1, CSA22.2, BSMI CNS14336 approved E-Type: TUV EN60950-1 approved		
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11(A/B/E type); FCC part 15 class B, CNS13438 class B(A/B/U type); GB9254(A/B type)		
Length of output cable		120cm of UL1185, 16AWG for 5~12V ; 180cm of UL1185, 18AWG for 15~48V	100cm of UL2468, 16AWG for 5~12V; 180cm of UL1185, 18AWG for 15~48V	100cm of UL2468, 16AWG
Standard DC plug		P1J: 2.1øx5.5øx11mm / C+, tuning fork type (refer to page 57 for DC plug list)		

Desktop / Wall-mounted — 18W



Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GST18□05-P1J	5V, 0~3.00A	±5%	80mV	80.0%	GST18□24-P1J	24V, 0~0.75A	±2%	180mV	87.0%
GST18□07-P1J	7.5V, 0~2.00A	±5%	80mV	84.5%	GST18□28-P1J	28V, 0~0.64A	±2%	240mV	87.0%
GST18□09-P1J	9V, 0~2.00A	±5%	80mV	85.0%	GST18□48-P1J	48V, 0~0.375A	±2%	240mV	88.5%
GST18□12-P1J	12V, 0~1.50A	±3%	80mV	85.5%	□ = A / B / U / E Class I — A: IEC320-C14 Class II — B: IEC320-C8, U: American 2P, E: European 2P				
GST18□15-P1J	15V, 0~1.20A	±3%	100mV	86.5%					
GST18□18-P1J	18V, 0~1.00A	±3%	150mV	86.5%					

Desktop / Wall-mounted — 25W



Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GST25□05-P1J	5V, 0~4.00A	±5%	80mV	80.0%	GST25□24-P1J	24V, 0~1.04A	±2%	180mV	88.0%
GST25□07-P1J	7.5V, 0~2.93A	±5%	80mV	84.0%	GST25□28-P1J	28V, 0~0.89A	±2%	240mV	88.0%
GST25□09-P1J	9V, 0~2.55A	±5%	80mV	85.0%	GST25□48-P1J	48V, 0~0.52A	±2%	240mV	90.0%
GST25□12-P1J	12V, 0~2.08A	±3%	80mV	86.0%	□ = A / B / U / E Class I — A: IEC320-C14 Class II — B: IEC320-C8, U: American 2P, E: European 2P				
GST25□15-P1J	15V, 0~1.66A	±3%	100mV	87.0%					
GST25□18-P1J	18V, 0~1.38A	±3%	150mV	87.0%					

Wall-mounted — 36W



Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GST36□05-P1J	5V, 0~4.30A	±5%	90mV	82.0%	GST36□24-P1J	24V, 0~1.50A	±2%	180mV	88.5%
GST36□09-P1J	9V, 0~3.11A	±5%	90mV	86.0%	GST36□48-P1J	48V, 0~0.75A	±2%	240mV	90.0%
GST36□12-P1J	12V, 0~3.00A	±3%	100mV	87.0%	□ = B / U / E ; B: IEC320-C8; U: American 2P, E: European 2P				



Features

- Universal AC input / Full range
- No load power consumption <0.075W for GST40A/60A; <0.15W for GST90A/120A
- **Energy efficiency Level VI**
- Comply with EISA 2007 / DoE, NRCAN, AU/NZ MEPS, EU ErP and CoC Version 5
- Built-in active PFC function for GST90A/120A
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Over voltage / Overload / Over temp. (except for GST40A)
- Fully enclosed plastic case
- LED indicator for power on
- Pass LPS (except for GST120A)
- 3 years warranty

General Specification



Order No.		GST40A	GST60A	GST90A	GST120A	
AC input voltage range		90~264VAC; 127~370VDC			85~264VAC; 120~370VDC	
AC inrush current (max.)		Cold start, 65A at 230VAC		Cold start, 70A at 230VAC		
Overload protection	Range	105%~150% rated output power		110%~150%	105%~160%	
	Type	Hiccup mode, auto-recovery				
Over voltage protection		105%~135% rated output voltage				
Setup, rise, hold up time		1000ms, 50ms, 50ms at 230VAC input		1000ms, 20ms, 20ms at 230VAC input	2000ms, 30ms, 20ms at 230VAC input	
Withstand voltage		I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC			I/P-FG: 3kVAC	
Working temperature		-30~+70℃				
Safety standards		UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1 approved				
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, CNS13438, GB9254, FCC part15 class B				
Length of output cable		GST40A: 100cm of UL1185, 16AWG for 5~15V; 180cm of UL1185, 18AWG for 18~48V GST60A: 100cm of UL2464, 16AWG for 5~9V; 100cm of UL1185, 16AWG for 12~15V; 150cm of UL1185, 16AWG for 18V; 180cm of UL1185, 18AWG for 24~48V		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V		100cm of UL2464, 16AWGx4C for 12V 120cm of UL2464, 18AWGx4C for 15~48V
Standard DC plug (refer to page 57 for DC plug list)		P1J: 2.1øx5.5øx11mm / C+, tuning fork type		P1M: 2.5øx5.5øx11mm / C+, tuning fork type		R7B: Power DIN 4P with lock type P1M: 2.5øx5.5øx11mm/C+, tuning fork type (20~48V only)

Desktop (IEC 320-C14 / Class I) — 40W

Order No.	Output	Tol.	R&N	Effi.
GST40A05-P1J	5V, 0~5.00A	±5%	150mV	84.5%
GST40A07-P1J	7.5V, 0~5.34A	±5%	150mV	87.5%
GST40A09-P1J	9V, 0~4.45A	±5%	150mV	88.5%
GST40A12-P1J	12V, 0~3.34A	±3%	150mV	89.5%
GST40A15-P1J	15V, 0~2.67A	±3%	150mV	90.0%
GST40A18-P1J	18V, 0~2.22A	±3%	150mV	90.0%
GST40A24-P1J	24V, 0~1.67A	±2.5%	180mV	91.0%
GST40A48-P1J	48V, 0~0.84A	±2.5%	240mV	92.0%

Desktop (IEC 320-C14 / Class I) — 60W

Order No.	Output	Tol.	R&N	Effi.
GST60A05-P1J	5V, 0~6.00A	±5%	150mV	85.5%
GST60A07-P1J	7.5V, 0~6.00A	±5%	150mV	88.5%
GST60A09-P1J	9V, 0~6.00A	±5%	150mV	89.0%
GST60A12-P1J	12V, 0~5.00A	±3%	150mV	89.5%
GST60A15-P1J	15V, 0~4.00A	±3%	150mV	89.5%
GST60A18-P1J	18V, 0~3.33A	±3%	150mV	89.5%
GST60A24-P1J	24V, 0~2.50A	±3%	180mV	90.5%
GST60A48-P1J	48V, 0~1.25A	±2.5%	240mV	92.0%

Desktop (IEC 320-C14 / Class I) — 90W

Order No.	Output	Tol.	R&N	Effi.
GST90A12-P1M	12V, 0~6.67A	±5%	120mV	89.0%
GST90A15-P1M	15V, 0~6.00A	±5%	150mV	89.5%
GST90A19-P1M	19V, 0~4.74A	±4%	180mV	90.0%
GST90A24-P1M	24V, 0~3.75A	±3%	200mV	90.0%
GST90A48-P1M	48V, 0~1.87A	±2.5%	240mV	91.0%

Desktop (IEC 320-C14 / Class I) — 120W

Order No.	Output	Tol.	R&N	Effi.
GST120A12-R7B	12V, 0~8.5A	±5%	120mV	88.5%
GST120A15-R7B	15V, 0~7.0A	±5%	150mV	89.0%
GST120A20-□	20V, 0~6.0A	±5%	180mV	90.0%
GST120A24-□	24V, 0~5.0A	±3%	200mV	90.5%
GST120A48-□	48V, 0~2.5A	±2.5%	240mV	91.0%
□= P1M / R7B				



Features

- Universal AC input / Full range
- No load power consumption < 0.15W (GST280A < 0.5W)
- **Energy efficiency Level VI**
- Comply with EISA 2007 / DoE, NRCAN, AU/NZ MEPS, EU ErP and CoC Version 5
- Built-in active PFC function
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- **Fanless design, high operating temperature up to +70°C**
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- 3 years warranty

General Specification



Order No.	GST160A	GST220A	GST280A
AC input voltage range	85~264VAC ; 120~370VDC		
AC inrush current (max.)	Cold start, 120A at 230VAC		
Overload protection	Range	105%~135% rated output power	
	Type	Hiccup mode, auto-recovery	
Over voltage protection	Range	105%~135% rated output power	
	Type	Shut down o/p voltage, re-power on to recover	
Hold up time	20ms at full load		16ms at full load
Withstand voltage	I/P-O/P: 3kVAC, 1 minute		
Working temperature	-30~+70°C (refer to output derating curve)		
Safety standards	UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part 15 class B, CNS13438, GB9254, GB17625.1		
Length of output cable	120cm of UL2464, 18AWGx4C	100cm of UL2464, 16AWGx4C	
Standard DC plug (refer to page 57 for DC plug list)	R7B: Power DIN 4P with lock type		6P/4.2mm pitch, MOLEX 39-01-2060(power supply side); MOLEX 39-01-2061(customer side, not provided with GST280A)

Desktop (IEC320-C14/Class I) — 160W

Order No.	Output	Tol.	R&N	Effi.
GST160A12-R7B	12V, 0~11.5A	±5%	80mV	90.0%
GST160A15-R7B	15V, 0~9.6A	±5%	100mV	91.0%
GST160A20-R7B	20V, 0~8.0A	±4%	150mV	93.0%
GST160A24-R7B	24V, 0~6.67A	±3%	180mV	93.0%
GST160A48-R7B	48V, 0~3.34A	±3%	240mV	94.0%

Desktop (IEC320-C14/Class I) — 280W

Order No.	Output	Tol.	R&N	Effi.
GST280A12-C6P	12V, 0~21A	±5%	120mV	90.0%
GST280A15-C6P	15V, 0~17A	±5%	120mV	90.0%
GST280A20-C6P	20V, 0~13A	±4%	150mV	92.0%
GST280A24-C6P	24V, 0~11.67A	±3%	280mV	93.0%
GST280A48-C6P	48V, 0~5.84A	±2%	280mV	94.0%

Desktop (IEC320-C14/Class I) — 220W

Order No.	Output	Tol.	R&N	Effi.
GST220A12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GST220A15-R7B	15V, 0~13.4A	±5%	100mV	90.0%
GST220A20-R7B	20V, 0~11.0A	±4%	150mV	92.0%
GST220A24-R7B	24V, 0~9.20A	±3%	180mV	93.5%
GST220A48-R7B	48V, 0~4.60A	±2%	240mV	94.5%



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40W&60W Slim Wall-mounted Green Adaptor

- Universal AC input / Full range
- No load power consumption <0.075W for SGA40; <0.15W for SGA60
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, EU ErP
- 2 pole US/European type plug
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Pass LPS
- Fully enclosed plastic case
- LED indicator for power on (60W only)
- 3 year warranty



AC input voltage range 90~264VAC ; 127~370VDC
 AC inrush current(max.) Cold start, 70A at 230VAC(40W);
 80A at 230VAC(60W)
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection 110%~140% clamp by Zener diode
 Setup, rise, hold up time ... 40W: 500ms, 100ms, 12ms at full load
 60W: 500ms, 50ms, 12ms at full load
 Withstand voltage I/P-O/P:4242VDC, 1 minute
 Working temperature -20~+50°C (refer to output derating curve)
 Safety standards U-Type: UL60950-1, CSA 22.2 approved
 E-Type: TUV EN60950-1 approved
 EMC standards U-Type: FCC part15 Class B
 E-Type: EN55022 Class B
 Length of output cable 100cm of 14AWG for SGA40 5V and SGA60 5~9V
 100cm of 16AWG for SGA40 9~15V and
 SGA60 12~18V
 150cm of 18AWG for SGA60 24~48V
 150cm of 20AWG for SGA40 18~48V
 Standard DC plug P1J: 2.1øx5.5øx11mm/C+, turning fork type
 (refer to page 57 for DC plug list)

40W

Order No.	Output	Tol.	R&N	Effi.
SGA40□05-P1J	5V, 0~5.00A	±5%	120mV	83.0%
SGA40□09-P1J	9V, 0~4.44A	±5%	120mV	86.0%
SGA40□12-P1J	12V, 0~3.33A	±3%	120mV	86.5%
SGA40□15-P1J	15V, 0~2.66A	±2%	120mV	86.5%
SGA40□18-P1J	18V, 0~2.22A	±2%	120mV	87.0%
SGA40□24-P1J	24V, 0~1.67A	±2%	150mV	88.0%
SGA40□48-P1J	48V, 0~0.84A	±2%	150mV	89.0%

□ = U / E, U: American 2P, E: European 2P

60W

Order No.	Output	Tol.	R&N	Effi.
SGA60□05-P1J	5V, 0~6.00A	±5%	80mV	84%
SGA60□07-P1J	7.5V, 0~6.00A	±5%	80mV	86%
SGA60□09-P1J	9V, 0~5.50A	±5%	80mV	87%
SGA60□12-P1J	12V, 0~5.00A	±3%	80mV	88%
SGA60□15-P1J	15V, 0~4.00A	±3%	80mV	87%
SGA60□18-P1J	18V, 0~3.33A	±2%	80mV	88%
SGA60□24-P1J	24V, 0~2.50A	±2%	100mV	88%
SGA60□48-P1J	48V, 0~1.25A	±2%	120mV	91%

□ = U / E, U: American 2P, E: European 2P

25W AC-DC Triple Output

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- LED indicator for power on
- 1 year warranty



AC input voltage range 90~264VAC ; 135~370VDC
 AC inrush current(max.) Cold start, 60A at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection 110%~140% of +5V output
 Setup, rise, hold up time ... 200ms, 50ms, 16ms at full load
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature 0~+40°C (refer to output derating curve)
 Safety standards UL1950, CSA 22.2, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,11
 Length of output cable 150cm of UL2464
 Standard DC plug R1B: DIN 5P

25W — Triple output (IEC 320-C14 / Class I)

Order No.	Output	Tol.	R&N	Effi.	Max.
P25A13A-R1B	5V, 0.5~2.5A	±5%	50mV	70%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-5V, 0.1~0.3A	±3%	100mV		
P25A13D-R1B	5V, 0.5~2.5A	±5%	50mV	72%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-12V, 0.1~0.3A	±3%	100mV		
P25A14E-R1B	5V, 0.5~2.5A	±5%	50mV	74%	25W
	15V, 0.1~0.5A	±5%	100mV		
	-15V, 0.1~0.3A	±3%	100mV		

25W — Triple output (IEC 320-C8 / Class II)

Order No.	Output	Tol.	R&N	Effi.	Max.
P25B13A-R1B	5V, 0.5~2.5A	±5%	50mV	70%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-5V, 0.1~0.3A	±3%	100mV		
P25B13D-R1B	5V, 0.5~2.5A	±5%	50mV	72%	25W
	12V, 0.1~0.8A	±5%	100mV		
	-12V, 0.1~0.3A	±3%	100mV		
P25B14E-R1B	5V, 0.5~2.5A	±5%	50mV	74%	25W
	15V, 0.1~0.5A	±5%	100mV		
	-15V, 0.1~0.3A	±3%	100mV		

50W AC-DC Triple Output



- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- 1 year warranty

AC input voltage range 90~264VAC ; 135~370VDC
 AC inrush current(max.) Cold start, 40A at 230VAC
 Overload protection Hiccup mode, auto-recovery
 Over voltage protection 110%~140% for +5V output
 Hold up time 12ms at full load
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1 minute
 Working temperature 0~+40°C (refer to output derating curve)
 Safety standards UL1950, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,11
 Length of output cable 120cm of UL2464
 Standard DC plug R1B: DIN 5P

Order No.	Output	Tol.	R&N	Effi.	Max.
P50A13A-R1B	5V, 0.5~4.0A	±6%	50mV	70%	46.5W
	12V, 0.5~2.0A	±10%	100mV		
	-5V, 0.1~0.5A	±12%	100mV		
P50A13D-R1B	5V, 0.5~4.0A	±6%	50mV	72%	50.0W
	12V, 0.5~2.0A	±10%	100mV		
	-12V, 0.1~0.5A	±12%	100mV		
P50A14E-R1B	5V, 0.5~4.0A	±6%	50mV	74%	50.0W
	15V, 0.5~1.5A	±10%	100mV		
	-15V, 0.1~0.5A	±12%	100mV		



Features

- Interchangeable AC plugs (plug kit sold separately)
- Medical safety approved (2xMOPP)
- Suitable for BF application with appropriate system consideration
- Universal AC input / Full range
- No load power consumption <0.075W
- Energy efficiency Level VI
- Comply with EISA 2007/DoE and EU ErP
- Class II power (without earth pin)
- Protections: Short circuit / Overload / Over voltage
- Low leakage current <100μA
- Fully enclosed plastic case
- Optional lock type DC plug
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.	GEM181
AC input voltage range	80~264VAC; 113~370VDC
AC inrush current (max.)	Cost start, 30A at 100VAC; 60A at 230VAC
Overload protection	Range: 105%~160% rated output power Type: Hiccup mode, auto-recovery
Over voltage protection	110%~140% rated output voltage, clamp by zener diode
Setup, rise, hold up time	500ms, 30ms, 16ms at 230VAC input
Withstand voltage	I/P-O/P: 5656VDC, 1 minute
Working temperature	-20~+50°C (refer to output derating curve)
Safety standards	ANSI/AAMI ES60601-1/60601-1-11, EN60601-1/60601-1-11 approved
EMC standards	EN55022 Class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, FCC part18 class B
Length of output cable	100cm of 16AWG for 5~9V; 100cm of 18AWG for 12V; 150cm of 22AWG for 15~48V
Standard DC plug	P1J: 2.10x5.50x11mm/C+, turning fork type

Wall-mounted(Interchangeable Type)—18W

Order No. (main body)	Output	Tol.	R&N	Effi.
GEM18105-P1J	5V, 0~3.00A	±5%	60mV	80%
GEM18109-P1J	9V, 0~2.00A	±5%	60mV	84%
GEM18112-P1J	12V, 0~1.50A	±3%	80mV	84%
GEM18115-P1J	15V, 0~1.20A	±3%	80mV	84%
GEM18118-P1J	18V, 0~1.00A	±2%	80mV	84%
GEM18124-P1J	24V, 0~0.75A	±2%	80mV	85%
GEM18148-P1J	48V, 0~0.375A	±2%	80mV	87%

Interchangeable AC Plug Specifically for GEM181

AC Plug Type		
AC Plug Order No.	AC Plug-AU2	AC Plug-UK2
AC Plug Type		
AC Plug Order No.	AC Plug-EU2	AC Plug-US2
Mix four Type		
AC Plug Order No.	AC Plug-MIX2	

Note: Main body unit and AC plug should be ordered separately; The main body needs to be used along with any of the AC plug.

Optional DC Plug List

Tuning Fork Style	Type	A	B	C
		OD	ID	L
	P1I	5.5	2.1	9.5
	P1J	5.5	2.1	11.0
	P1L	5.5	2.5	9.5
	P1M	5.5	2.5	11.0
Barrel Style	Type	A	B	C
		OD	ID	L
	P2I	5.5	2.1	9.5
	P2J	5.5	2.1	11.0
Lock Style	Type	A	B	C
		OD	ID	L
	P2S (S761K)	5.53	2.03	12.06
DIN 5 Pin	Type	Pin Assignment		
	R1B	1	Single COM	Triple COM
		2	COM	COM
		3	Vout	+5V
		4	COM	-Vout
		5	Vout	+Vout
DIN 4 Pin with lock	Type	Pin Assignment		
	R7B	PIN No.	Output	
		1	+Vout	
		2	GND	
		3	GND	
		4	+Vout	

► Minimum order quantity is varied for different models.



Features

- Universal AC input / Full range
- Medical safety approved(2xMOPP)
- Suitable for BF application with appropriate system consideration
- Low leakage current <50 μ A
- No load power consumption <0.1W(<0.3W for GSM06)
- Energy efficiency Level VI (GSM06 and GSM18/25/36 5~9V for Level V)
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and meet CoC Version 5(GSM18/25/36); EISA 2007 and EU ErP(GSM06)
- Class II power(without earth pin)
- 2 pole USA / EURO plug or IEC320-C8
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on(except for GSM06)
- Optional lock type DC plug
- Certificates: B-Type: UL / CUL / TUV / CB / FCC / CE
U-Type: UL / CUL / CB / FCC
E-Type: TUV / CB / CE
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.		GSM06	GSM18	GSM25	GSM36
AC input voltage range		80~264VAC; 113~370VDC			
AC inrush current (max.)		Cold start, 30A at 230VAC	Cold start, 55A at 230VAC		
Overload protection	Range	>105% rated output power		105%~170% rated output power	
	Type	Hiccup mode, auto-recovery			
Over voltage protection		110%~140%	105%~135% rated output voltage, shut down o/p voltage, re-power on to recover		
Setup, rise, hold up time		1000ms, 50ms, 12ms	500ms, 30ms, 16ms at 230VAC input		
Withstand voltage		I/P-O/P: 5656VDC	I/P-O/P: 4kVAC		
Working temperature		0~+50°C	-25~+60°C (refer to output derating curve)		
Safety standards		B-Type(except for GSM06): ANSI/AAMI ES60601-1/ES60601-1-11 , TUV EN60601-1 / EN60601-1-11 approved U-Type: ANSI/AAMI ES60601-1, ES60601-1-11 approved E-Type: TUV EN60601-1 / EN60601-1-11 approved			
EMC standards		B-Type(except for GSM06): EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B U-Type: FCC Part 15 class B E-Type: EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level			
Length of output cable		120cm of UL2468, 22AWG for 5~9V; 180cm of UL2468, 24AWG for 12~24V	120cm of UL1185, 16AWG for GSM18/25/36 5~9V; 180cm of UL1185, 16AWG for GSM25 12V and GSM36 12~48V; 180cm of UL1185, 18AWG for GSM18 12~48V and GSM25 15~48V		
Standard DC plug		P1J: 2.1øx 5.5øx 11mm / C+, tuning fork type (refer to page 57 for DC plug list)			
Dimension (LxWxH)(mm)		66x 32x 42.5	79x 54x 33		

Wall-mounted — 6W

Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GSM06□05-P1J	5V, 0~1.20A	±5%	50mV	68%	GSM06□15-P1J	15V, 0~0.40A	±5%	120mV	79%
GSM06□06-P1J	6V, 0~1.00A	±5%	50mV	74%	GSM06□18-P1J	18V, 0~0.33A	±5%	150mV	80%
GSM06□07-P1J	7.5V, 0~0.80A	±5%	80mV	74%	GSM06□24-P1J	24V, 0~0.25A	±4%	180mV	82%
GSM06□09-P1J	9V, 0~0.66A	±5%	80mV	76%	□ = U / E ; U: American 2P, E: European 2P				
GSM06□12-P1J	12V, 0~0.50A	±5%	100mV	77%					

Desktop / Wall-mounted — 18W

Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GSM18□05-P1J	5V, 0~3.00A	±5%	60mV	80%	GSM18□18-P1J	18V, 0~1.00A	±3%	150mV	86%
GSM18□07-P1J	7.5V, 0~2.00A	±5%	80mV	83%	GSM18□24-P1J	24V, 0~0.75A	±2%	180mV	87%
GSM18□09-P1J	9V, 0~2.00A	±5%	80mV	84%	GSM18□48-P1J	48V, 0~0.375A	±2%	240mV	88%
GSM18□12-P1J	12V, 0~1.50A	±3%	120mV	85%	□ = B / U / E ; B: IEC320-C8, U: American 2P, E: European 2P				
GSM18□15-P1J	15V, 0~1.20A	±3%	120mV	85.5%					

Desktop / Wall-mounted — 25W

Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GSM25□05-P1J	5V, 0~4.00A	±6%	60mV	80%	GSM25□18-P1J	18V, 0~1.38A	±3%	150mV	86%
GSM25□07-P1J	7.5V, 0~2.93A	±5%	80mV	83%	GSM25□24-P1J	24V, 0~1.04A	±2%	180mV	87%
GSM25□09-P1J	9V, 0~2.77A	±5%	80mV	84%	GSM25□48-P1J	48V, 0~0.52A	±2%	240mV	88%
GSM25□12-P1J	12V, 0~2.08A	±3%	120mV	86%	□ = B / U / E ; B: IEC320-C8, U: American 2P, E: European 2P				
GSM25□15-P1J	15V, 0~1.66A	±3%	120mV	86%					

Desktop / Wall-mounted — 36W

Order No.	Output	Tol.	R&N	Effi.	Order No.	Output	Tol.	R&N	Effi.
GSM36□05-P1J	5V, 0~4.50A	±6%	80mV	80%	GSM36□18-P1J	18V, 0~2.00A	±3%	150mV	87%
GSM36□07-P1J	7.5V, 0~4.32A	±5%	80mV	83%	GSM36□24-P1J	24V, 0~1.50A	±2%	180mV	87%
GSM36□09-P1J	9V, 0~4.00A	±5%	80mV	84%	GSM36□48-P1J	48V, 0~0.75A	±2%	240mV	88%
GSM36□12-P1J	12V, 0~3.00A	±3%	120mV	86%	□ = B / U / E ; B: IEC320-C8, U: American 2P, E: European 2P				
GSM36□15-P1J	15V, 0~2.40A	±3%	120mV	87%					



Features

- Universal AC input / Full range
- **Medical safety approved(2xMOPP)**
- **Suitable for BF application with appropriate system consideration** (except for GSM40A/60A)
- Low leakage current < 50μA(<100μA for GSM40A/60A/90B)
- No load power consumption <0.1W(<0.15W for GSM90B)
- **Energy efficiency Level VI** (except GSM40/60 5~9V for Level V)
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Built-in active PFC function(GSM90B)

- High efficiency up to 91.5%
- A-Type: Class I(with earth Pin)
- B-Type: Class II(without earth Pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.(except for GSM40)
- Fully enclosed plastic case
- LED indicator for power on
- Optional lock type DC plug
- 3 years warranty



General Specification (Please refer to www.meanwell.com for detail spec.)

Order No.		GSM40A/B	GSM60A/B	GSM90B
AC input voltage range		80~264VAC; 113~370VDC		
AC inrush current (max.)		Cold start, 65A at 230VAC		
Overload protection	Range	105%~160% rated output power		110%~150%
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	105%~135% rated output voltage		
	Type	Shut down o/p voltage, re-power on to recover		
Setup, rise, hold up time		1000ms, 30ms, 50ms		1000ms, 50ms, 20ms
Withstand voltage		A-Type: I/P-O/P: 4kVAC, I/P-FG: 2kVAC, O/P-FG: Short B-Type: I/P-O/P: 4kVAC		I/P-O/P: 4kVAC
Working temperature		-30~+60°C (refer to output derating curve)		
Safety standards		ANSI/AAMI ES60601-1 / ES60601-1-11, TUV EN60601-1 / EN60601-1-11 approved		
EMC standards		EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B		
Length of output cable		100cm of UL2464, 16AWG for GSM40 5~7.5V and GSM60 5~15V 100cm of UL1185, 16AWG for GSM40 9~12V 150cm of UL1185, 16AWG for GSM40 15~48V and GSM60 18~48V		100cm of UL1185, 14AWG for 12~15V; 120cm of UL1185, 16AWG for 19~48V
Standard DC plug (refer to page 57 for DC plug list)		P1J: 2.1øx5.5øx11mm/c+, tuning fork type		P1M: 2.5øx5.5øx11mm/c+, tuning fork type
Dimension (LxWxH)(mm)		125x 50x 31.5		145x 60x 32

Desktop (IEC 320-C14 / Class I) — 40W

Order No.	Output	Tol.	R&N	Effi.
GSM40A05-P1J	5V, 0.1~5.00A	±5%	100mV	81.0%
GSM40A07-P1J	7.5V, 0.1~5.34A	±5%	100mV	85.5%
GSM40A09-P1J	9V, 0.1~4.45A	±5%	100mV	86.0%
GSM40A12-P1J	12V, 0.1~3.34A	±3%	100mV	88.0%
GSM40A15-P1J	15V, 0.1~2.67A	±3%	100mV	88.5%
GSM40A18-P1J	18V, 0.1~2.22A	±3%	150mV	89.5%
GSM40A24-P1J	24V, 0.1~1.67A	±2.5%	180mV	90.0%
GSM40A48-P1J	48V, 0.1~1.84A	±2.5%	240mV	91.0%

Desktop (IEC 320-C14 / Class I) — 60W

Order No.	Output	Tol.	R&N	Effi.
GSM60A05-P1J	5V, 0.1~6.00A	±5%	100mV	81.5%
GSM60A07-P1J	7.5V, 0.1~6.00A	±5%	100mV	86.0%
GSM60A09-P1J	9V, 0.1~6.00A	±5%	100mV	87.5%
GSM60A12-P1J	12V, 0.1~5.00A	±3%	100mV	88.0%
GSM60A15-P1J	15V, 0.1~4.00A	±3%	100mV	88.5%
GSM60A18-P1J	18V, 0.1~3.33A	±3%	150mV	89.0%
GSM60A24-P1J	24V, 0.1~2.50A	±3%	180mV	90.0%
GSM60A48-P1J	48V, 0.1~1.25A	±2.5%	240mV	91.0%

Desktop (IEC 320-C8 / Class II) — 40W

Order No.	Output	Tol.	R&N	Effi.
GSM40B05-P1J	5V, 0.1~5.00A	±5%	100mV	81.0%
GSM40B07-P1J	7.5V, 0.1~5.34A	±5%	100mV	85.5%

Order No.	Output	Tol.	R&N	Effi.
GSM40B09-P1J	9V, 0.1~4.45A	±5%	100mV	86.0%
GSM40B12-P1J	12V, 0.1~3.34A	±3%	100mV	88.0%
GSM40B15-P1J	15V, 0.1~2.67A	±3%	100mV	88.5%
GSM40B18-P1J	18V, 0.1~2.22A	±3%	150mV	89.5%
GSM40B24-P1J	24V, 0.1~1.67A	±2.5%	180mV	90.0%
GSM40B48-P2J	48V, 0.1~0.84A	±2.5%	240mV	91.0%

Desktop (IEC 320-C8 / Class II) — 60W

Order No.	Output	Tol.	R&N	Effi.
GSM60B05-P1J	5V, 0.1~6.00A	±5%	100mV	81.0%
GSM60B07-P1J	7.5V, 0.1~6.00A	±5%	100mV	86.0%
GSM60B09-P1J	9V, 0.1~6.00A	±5%	100mV	87.5%
GSM60B12-P1J	12V, 0.1~5A	±3%	100mV	88.0%
GSM60B15-P1J	15V, 0.1~4A	±3%	100mV	88.5%
GSM60B18-P1J	18V, 0.1~3.33A	±3%	150mV	89.0%
GSM60B24-P1J	24V, 0.1~2.5A	±3%	180mV	90.0%
GSM60B48-P1J	48V, 0.1~1.25A	±2.5%	240mV	91.5%

Desktop (IEC 320-C8 / Class II) — 90W

Order No.	Output	Tol.	R&N	Effi.
GSM90B12-P1M	12V, 0~6.67A	±5%	120mV	88.0%
GSM90B15-P1M	15V, 0~6.00A	±5%	150mV	89.0%
GSM90B19-P1M	19V, 0~4.74A	±4%	180mV	89.0%
GSM90B24-P1M	24V, 0~3.75A	±3%	200mV	90.0%
GSM90B48-P1M	48V, 0~1.87A	±2.5%	240mV	91.0%



Features

- Universal AC input / Full range
- **Medical safety approved (2xMOPP)**
- **Suitable for BF application with appropriate system consideration**
- Low leakage current < 100μA
- No load power consumption < 0.15W
- **Energy efficiency Level VI**
- Comply with EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and meet CoC Version 5
- Built-in active PFC function
- High efficiency up to 94.5%
- Fanless design, high operating temperature up to +70°C
- Class II (without earth Pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- LED indicator for power on
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



General Specifications (refer to WIKIKEMCOM for detail spec)				
Order No.		GSM120B	GSM160B	GSM220B
AC input voltage range		80~264VAC; 113~370VDC		
AC inrush current (max.)		Cold start, 70A at 230VAC		Cold start, 120A at 230VAC
Overload protection	Range	105%~160% rated output power		105%~135% rated output power
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	105%~135% rated output voltage		
	Type	Shut down o/p voltage, re-power on to recover		
Setup, rise, hold up time		1500ms, 30ms, 20ms		2000ms, 20ms, 20ms
Withstand voltage		I/P-O/P: 4kVAC		
Working temperature		-30~+60°C		
Safety standards		-30~+70°C (refer to output derating curve)		
EMC standards		ANSI/AAMI ES60601-1 / ES60601-1-11, TUV EN60601-1 / EN60601-1-11 approved		
Length of output cable		EN55011 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN60601-1-2 medical level, FCC Part 15 class B		
Standard DC plug (refer to page 57 for DC plug list)		100cm of UL2464, 18AWGx4C for 12V; 120cm of UL2464, 18AWGx4C for 15~48V		
Dimension (LxWxH)(mm)		120cm of UL2464, 18AWGx4C		100cm of UL2464, 18AWGx4C
Standard DC plug (refer to page 57 for DC plug list)		R7B: power DIN 4P with lock type		
Dimension (LxWxH)(mm)		167x 67x 35		175x 72x 35
				210x 85x 46

Desktop (IEC 320-C8 / Class II) — 120W

Order No.	Output	Tol.	R&N	Effi.
GSM120B12-R7B	12V, 0~8.5A	±5%	120mV	88.0%
GSM120B15-R7B	15V, 0~7.00A	±5%	150mV	89.0%
GSM120B20-R7B	20V, 0~6.00A	±5%	180mV	89.0%
GSM120B24-R7B	24V, 0~5.00A	±3%	200mV	90.0%
GSM120B48-R7B	48V, 0~2.50A	±2.5%	240mV	91.5%

Desktop (IEC 320-C8 / Class II) — 220W

Order No.	Output	Tol.	R&N	Effi.
GSM220B12-R7B	12V, 0~15.0A	±5%	80mV	90.0%
GSM220B15-R7B	15V, 0~13.4A	±5%	100mV	90.0%
GSM220B20-R7B	20V, 0~11.0A	±4%	150mV	92.5%
GSM220B24-R7B	24V, 0~9.20A	±3%	180mV	93.5%
GSM220B48-R7B	48V, 0~4.60A	±2%	240mV	94.5%

Desktop (IEC 320-C8 / Class II) — 160W

Order No.	Output	Tol.	R&N	Effi.
GSM160B12-R7B	12V, 0~11.5A	±5%	80mV	90.0%
GSM160B15-R7B	15V, 0~9.6A	±5%	100mV	91.0%
GSM160B20-R7B	20V, 0~8.0A	±4%	150mV	93.0%
GSM160B24-R7B	24V, 0~6.67A	±3%	180mV	93.0%
GSM160B48-R7B	48V, 0~3.34A	±3%	240mV	94.0%



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60~120W Single Output



Features

- IP67 design for main body
- Universal AC input / Full range
- No load power consumption <0.15W
- **Energy efficiency Level VI**
- E-Type: Comply with EU ErP and meet CoC Version 5
U-Type: Comply with EISA 2007/DoE and NRCAN
- Built-in active PFC function (OWA-90/120)
- Class II power (without earth pin)
- High efficiency up to 91%
- Fanless design, cooling by free air convection
- -40~+70°C wide operating range (-35~+70°C for OWA-60)
- Fully enclosed by plastic case filling with heat-conducted glue
- Protections: Short circuit / Over current / Over voltage / Over temperature
- **Suitable for general electronics applications at highly dusty or damp environment**
- **5 years warranty**

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	OWA-60□	OWA-90□	OWA-120□
AC input voltage range	90~264VAC; 127~370VDC		
AC inrush current (max.)	Cold start, 65A at 230VAC		Cold start, 60A at 230VAC
Leakage current	<0.25mA at 240VAC		
Overload protection	E-Type: 105~115% hiccup mode, auto-recovery; U-Type: 95~108% constant current limiting, auto-recovery		
Over voltage protection	110%~140% rated output voltage		
Over temperature protection	Shut down output voltage, re-power on to recover		
Setup, rise, holdup time	500ms, 80ms, 10ms at full load and 230VAC		500ms, 80ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75KVAC		
Working temperature	-35~+70°C		-40~+70°C (refer to output derating curve)
Safety standards	E-Type: EN61558-1 , EN61558-2-16 listed; EN60335-1 listed approved; U-Type: UL8750 listed approved		
EMC standards	E-Type: EN55022 class B, EN55014, EN61000-3-2,-3; U-Type: FCC Part 15		
Length of output cable	Input	E-Type: 150cm of H05RN-F 1.0mm ² x2C; U-Type: 150cm of SVT 18AWGx2C	
	Output	E-Type: 30cm of H05RN-F 1.0mm ² x2C U-Type: 30cm of UL1185 16AWG x2C	E-Type: 30cm of H05RN-F 1.0mm ² x2C U-Type: 30cm of UL2464 18AWG x4C E-Type: 30cm of H07RN-F 1.5mm ² x2C U-Type: 30cm of UL2464 18AWG x4C
Standard plug	Input	E-Type: CEE 7/7 EU plug; U-Type: NEMA 1-15P plug	
	Output	2.1øx5.5øx11mm / C+, tuning fork type E-Type: XLR 4P, male type; U-Type: R7B, Power DIN 4P with lock type	
Dimension (LxWxH)(mm)	130x 53x 35	171x 63x 37.5	191x 63x 37.5

OWA-60 Series

Model No.	Output	Tol.	R&N	Effi.
OWA-60□ -12	12V, 0~5A	±4.0%	150mV	88%
OWA-60□ -15	15V, 0~4A	±4.0%	150mV	89%
OWA-60□ -20	20V, 0~3A	±4.0%	150mV	89%
OWA-60□ -24	24V, 0~2.5A	±3.0%	150mV	90%
OWA-60□ -30	30V, 0~2A	±3.0%	200mV	90%
OWA-60□ -36	36V, 0~1.67A	±2.0%	200mV	90%
OWA-60□ -42	42V, 0~1.5A	±1.0%	250mV	90%
OWA-60□ -48	48V, 0~1.25A	±1.0%	250mV	91%
OWA-60□ -54	54V, 0~1.12A	±1.0%	350mV	91%

□ = E / U ; E: European 2P, U: American 2P

OWA-90 Series

Model No.	Output	Tol.	R&N	Effi.
OWA-90□ -12	12V, 0~7.5A	±4.0%	150mV	89%
OWA-90□ -15	15V, 0~6A	±4.0%	150mV	90%
OWA-90□ -20	20V, 0~4.5A	±4.0%	150mV	90%
OWA-90□ -24	24V, 0~3.75A	±3.0%	150mV	90%

OWA-90□ -30	30V, 0~3A	±3.0%	200mV	90%
OWA-90□ -36	36V, 0~2.5A	±2.0%	200mV	91%
OWA-90□ -42	42V, 0~2.15A	±1.0%	250mV	91%
OWA-90□ -48	48V, 0~1.88A	±1.0%	250mV	91%
OWA-90□ -54	54V, 0~1.67A	±1.0%	350mV	91%

□ = E / U ; E: European 2P, U: American 2P

OWA-120 Series

Model No.	Output	Tol.	R&N	Effi.
OWA-120□ -12	12V, 0~10A	±4.0%	150mV	89.0%
OWA-120□ -15	15V, 0~8A	±4.0%	150mV	89.5%
OWA-120□ -20	20V, 0~6A	±4.0%	150mV	90.0%
OWA-120□ -24	24V, 0~5A	±4.0%	150mV	90.5%
OWA-120□ -30	30V, 0~4A	±3.0%	200mV	90.0%
OWA-120□ -36	36V, 0~3.4A	±2.0%	200mV	90.5%
OWA-120□ -42	42V, 0~2.9A	±1.0%	250mV	90.5%
OWA-120□ -48	48V, 0~2.5A	±1.0%	250mV	91.0%
OWA-120□ -54	54V, 0~2.3A	±1.0%	350mV	91.0%

□ = E / U ; E: European 2P, U: American 2P

30W Green Adaptor with Charging Function

- Universal AC input / Full range
- Class II power (without earth pin)
- **No load power consumption < 1W**
- Constant current and voltage (CC, CV mode)
- High reliability
- Suitable for high surge current equipment
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 2 color LED indicator for charging status
- Fully enclosed plastic case
- 2 years warranty



AC input voltage range 90~264VAC; 127~370VDC
 Overload protection 90%~110% constant current mode and over 300% pulsing mode
 Over voltage protection 110%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, 1minute
 Working temperature 0~+50°C (refer to output derating curve)
 Safety standards UL60950-1, CSA 22.2, TUV EN60950-1 approved
 EMC standards EN55014-1, EN61000-3-2,3, EN61000-4-2,3,4,5,6,11
 Length of output cable 120cm of UL1185, 16AWG for 4.2~8.4V
 180cm of UL1185, 18AWG for 14.3~28.6V
 Standard DC plug P1J: 2.1x5.5x11mm / C+, tuning fork type

Order No.	Output	R&N	Effi.
GC30□-0P1J	4.2V, 0~4.00A	50mV	55%
GC30□-1P1J	5.6V, 0~3.99A	50mV	70%
GC30□-11P1J	7.2V, 0~3.00A	80mV	74%
GC30□-2P1J	8.4V, 0~3.00A	80mV	76%
GC30□-4P1J	14.3V, 0~2.09A	100mV	78%
GC30□-5P1J	16.8V, 0~1.60A	100mV	78%
GC30□-6P1J	28.6V, 0~1.04A	150mV	80%

□ = B / U / E ; B: IEC320-C8, U: American 2P, E: European 2P

160W Green Adaptor with Charging Function



- Universal AC input / Full range
- Built-in active PFC function
- **No load power consumption < 1W**
- High efficiency up to 94%
- 2 stage charging characteristic
- Cooling by free air convection
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- 2 years warranty

AC input voltage range 85~264VAC; 120~370VDC
 Overload protection 90%~110% constant current, auto-recovery
 Over voltage protection 105%~135% rated output voltage, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC
 Working temperature -30~+70°C (refer to derating curve)
 Safety standards UL1012(GC160Axx-AD1 only), EN60950-1 approved
 EMC standards EN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Length of output cable 120cm of UL2464, 18AWGx 4C
 Standard DC plug Power DIN 4P with lock type (R7B)

Model No.	Output	Effi.
GC160A12-□	13.6V, 10.0A	89.0%
GC160A24-□	27.2V, 5.89A	92.5%
GC160A48-□	54.4V, 2.95A	94.0%

□ = R7B / AD1 ; R7B= 4 pin power din, AD1= Anderson connector

218W & 326W Green Adaptor with Charging Function



- Universal AC input / Full range
- Built-in active PFC function
- **No load power consumption < 1W**
- High efficiency up to 93.5%
- 2 stage charging characteristic
- Cooling by free air convection
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- 2 years warranty

	GC220	GC330
Case (mm)	210x85x46	220x95x46
Connector		

AC input voltage range 90~264VAC; 127~370VDC
 Overload protection 90%~110% constant current, auto-recovery
 Over voltage protection 105%~135% rated output voltage, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC
 Working temperature -30~+60°C (refer to output derating curve)
 Safety standards GC220: TUV EN60950-1, UL1012 (GC220Axx-AD1 only) approved
 GC330: TUV EN60950-1, UL60950-1 approved
 EMC standards EN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Length of output cable 100cm of UL2464, 16AWGx 4C
 Standard DC plug ... GC220: Power DIN 4P with lock type (R7B)
 GC330: 4P/6.35mm pitch, AMP 1-480702-0 (power supply side); AMP 1-480703-0 (customer side)

* GC220 Series

Model No.	Output	Effi.
GC220A12-□	13.6V, 13.5A	89.0%
GC220A24-□	27.2V, 8A	92.5%
GC220A48-□	54.4V, 4A	93.0%

□ = R7B / AD1 ; R7B= 4 pin power din, AD1= Anderson connector

* GC330 Series

Model No.	Output	Effi.
GC330A36-C4P	40.8V, 8A	93.5%
GC330A48-C4P	54.4V, 6A	93.5%

120W Green Adaptor with Charging Function



- Universal AC input / Full range
- Built-in active PFC function
- **No load power consumption < 0.5W**
- High efficiency up to 91%
- 2 stage charging characteristic
- Cooling by free air convection
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Fully enclosed plastic case
- 2 color LED indicator for charging status
- 2 years warranty

AC input voltage range 85~264VAC; 120~370VDC
 Overload protection 90~110% constant current, auto-recovery
 Over voltage protection 105%~135% shut down O/P voltage, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC
 Working temperature -30~+70°C (refer to derating curve)
 Safety standards UL1012 (GC120Axx-AD1 only), EN60950-1 approved
 EMC standards EN55022 class B, FCC part 15 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Length of output cable 120cm of UL2464, 18AWGx 4C
 Standard DC plug Power DIN 4P with lock type (R7B)

Model No.	Output	Effi.
GC120A12-□	13.6V, 7.5A	86.5%
GC120A24-□	27.2V, 4.42A	90.0%
GC120A48-□	54.4V, 2.21A	91.0%

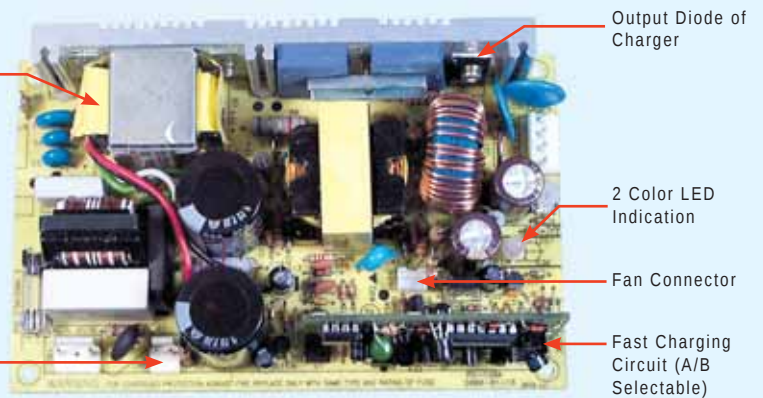
□ = R7B / AD1 ; R7B= 4 pin power din, AD1= Anderson connector



PCB Type: 144x 90x 35 mm
External Case Type: 180x 96x 49 mm

Power Factor
Correction Choke

115 / 230
Selectable



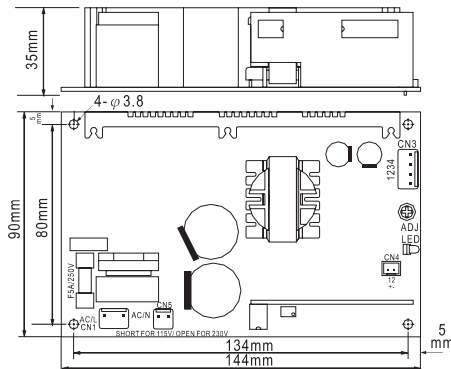
Output Diode of
Charger

2 Color LED
Indication

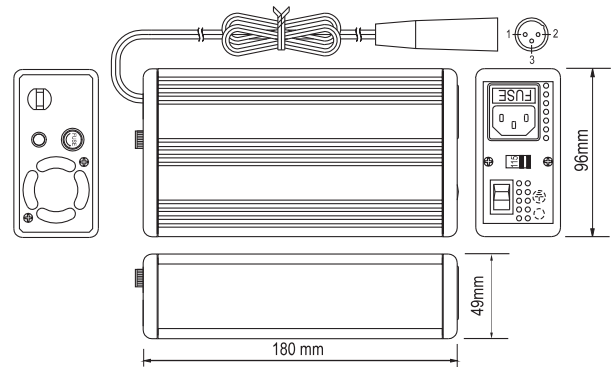
Fan Connector

Fast Charging
Circuit (A/B
Selectable)

P.C.B. Dimension



Case Drawing



Features

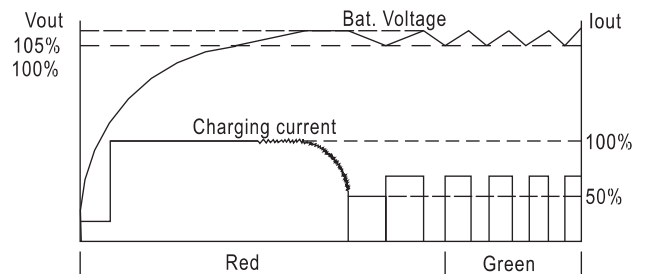
- AC input range selectable by switch
- Passive PFC, PF> 0.65(option)
- Protection for deeply discharged battery
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Charger for lead-acid batteries
- Built-in ON/OFF power switch
- 3 poles AC inlet with fuse holder
- Charging type can be selected (option)
- 2 color LED loading indicator
- EN60335 approved
- Low cost, high reliability
- Open frame models available (without safety approval)
- 2 years warranty

General Specification

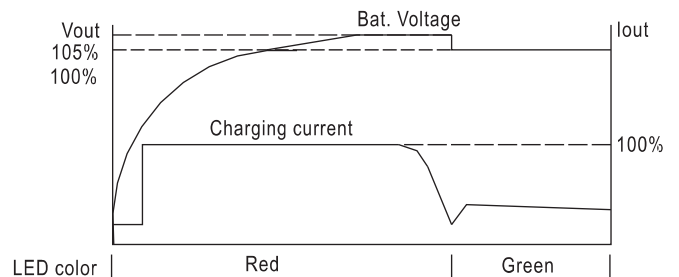
AC input voltage range 88~132VAC/ 176~264VAC selectable by switch
AC inrush current (max.) Cold start, 25A at 115VAC, 50A at 230VAC
Overload protection 90%~110% constant current limiting ,auto-recovery
Over voltage protection 108%~127% rated output voltage
Setup, rise, hold up time 1000ms, 50ms, 16ms at full load and 230VAC
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute
Working temperature -10~+45°C, derating curve may vary for different models
Safety standards UL60950-1, TUV EN60950-1, EN60335-1, EN60335-2-29(except for 55.2V) approved
EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3
DC output cable 6 ft. of SPT-2, 18AWGx2C
Standard output connector ... XLR 3P, male type
Packing 1.1kg ; 16pcs / 17.9kg / 1.47CUFT (without PFC)
1.24kg ; 16pcs / 20.1kg / 1.47CUFT (with PFC)

Model No.	Output	Tol.	R&N	Effi.
P□-120□-13□	13.8V, 0~7.2A	±3~±8.5%	150mV	73%
P□-120□-27□	27.6V, 0~4.3A	±1~±8.0%	200mV	79%
P□-120□-54□	55.2V, 0~2.2A	±1~±7.5%	250mV	79%

Charging Curve



Type A: pulse charger (detect on bat. voltage)



Type B: 2 section voltage charger (detect on charging current)

Order Information

P **A** - 120 P - 13 C

A: Pulse charge
B: 2 section voltage charge
P: With PFC
N: None PFC

P : Open P.C.B.
C : With case

13: 13.8V
27: 27.6V
54: 55.2V

108W~216W Desktop Power Supply or Charger



- AC input range selectable by switch
- Protections: Short circuit / Overload / Over voltage / Over temp.
- 3 color LED loading indicator
- Battery under / over voltage and polarity protection (ESC only)
- Cooling by free air convection (120W)
- Built-in DC fan with fan ON/OFF auto control at 50°C (240W)
- 2 years warranty

AC input voltage range 88~132VAC / 176~264VAC selectable by switch
 AC inrush current Cold start, 40A at 230VAC
 DC adjustment range 13.5V: 12~15V, 27V: 24~30V, 54V: 48~56V
 Overload protection 105%~135% fold back current limiting, auto-recovery
 Over voltage protection 115%~135% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards CSA 61010-1 approved
 EMC standards EN55022/B, EN61000-3-2,3, EN61000-4-2,3,4
 Packing 1.38kg ; 8pcs / 12.0kg / 1.1CUFT (120W)
 1.5kg ; 8pcs / 13.0kg / 1.1CUFT (240W)

◆ ESC/P-120 Series

Model No.	Output	Tol.	R&N	Effi.
ESC-120-13.5	13.5V, 0~8A	±2%	120mV	81%
ESC-120-27	27V, 0~4A	±1%	150mV	83%
ESC-120-54	54V, 0~2A	±1%	400mV	84%
ESP-120-13.5	13.5V, 0~8A	±2%	120mV	81%
ESP-120-27	27V, 0~4A	±1%	150mV	83%
ESP-120-54	54V, 0~2A	±1%	400mV	84%

◆ ESC/P-240 Series

Model No.	Output	Tol.	R&N	Effi.
ESC-240-13.5	13.5V, 0~16A	±2%	120mV	81%
ESC-240-27	27V, 0~8A	±1%	150mV	84%
ESC-240-54	54V, 0~4A	±1%	400mV	85%
ESP-240-13.5	13.5V, 0~16A	±2%	120mV	81%
ESP-240-27	27V, 0~8A	±1%	150mV	84%
ESP-240-54	54V, 0~4A	±1%	400mV	85%

230W Single Output Battery Charger



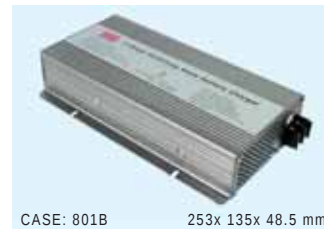
- 3 stage charging
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Over voltage / Over temperature
- 2 color LED loading indicator
- Built-in remote ON-OFF control
- Fan ON/OFF control
- Low cost, high reliability
- 2 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current (max.) .. Cold start, 50A at 230VAC
 Over voltage protection 102%~125% shut off, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC
 Working temperature -20~+50°C (refer to output derating curve)
 Safety standards UL1012(PB-230xx-AD1 only), EN60950-1 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3
 Packing 1.21Kg ; 12pcs / 15.5kg / 1.29CUFT

Model No.	Output	Effi.
PB-230-12□	14.4V, 0~16A	81.5%
PB-230-24□	28.8V, 0~8A	85.5%
PB-230-48□	57.6V, 0~4A	86.0%

□ = Blank, AD1; Blank= XLR 4P, male type, AD1= Anderson connector

300W Single Output Battery Charger



- Optimal 3 stage charging characteristic
- AC input range selectable by switch
- Passive PFC compliance to EN61000-3-2 class A (option)
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Charger for lead-acid batteries
- Built-in ON/OFF power switch
- 3 poles AC inlet (IEC 320-C14)
- 2 color LED loading indicator
- Built-in remote ON/OFF control
- Cooling by free air convection
- 3 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch
 AC inrush current (max.) .. Cold start, 60A at 230VAC
 Over voltage protection 108%~125% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -10~+50°C (refer to output derating curve)
 Safety standards IEC60335-2-29 CB approval by TUV

(except for 48V), UL60950-1 approved

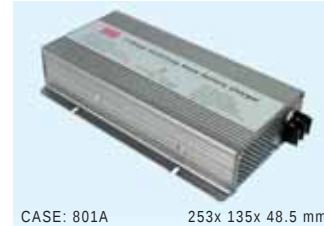
EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 (P type)

Packing 1.45kg ; 6pcs / 9.7kg / 0.95CUFT

Model No.	Output (20 min.) / (Continuous at 25°C)	Effi.
PB-300□-12	14.4V, 20.85A / 12.5A	85%
PB-300□-24	28.8V, 10.50A / 6.25A	86%
PB-300□-48	57.6V, 5.3A / 3.20A	88%

□ = P: with PFC; N: non PFC

360W Single Output Battery Charger



- Optimal 3 stage charging characteristic
- AC input range selectable by switch
- Passive PFC compliance to EN61000-3-2 class A (option)
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Charger for lead-acid batteries
- Built-in ON/OFF power switch
- 3 poles AC inlet (IEC 320-C14)
- 2 color LED loading indicator
- Built-in remote ON/OFF control
- Cooling by built-in DC fan
- 3 years warranty

AC input voltage range 90~132VAC / 180~264VAC selectable by switch
 AC inrush current (max.) .. Cold start, 60A at 230VAC
 Over voltage protection 108%~125% rated output voltage
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards IEC60335-2-29 CB approval by TUV

(except for 48V), UL60950-1 approved

EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3 (P type)

Packing 1.5kg ; 6pcs / 10kg / 0.95CUFT

Model No.	Output	Effi.
PB-360□-12	14.4V, 24.3A	85%
PB-360□-24	28.8V, 12.5A	86%
PB-360□-48	57.6V, 6.25A	87%

□ = P: with PFC; N: non PFC

600W Single Output Battery Charger



CASE: 805C 230x 158x 67 mm

- 2/3/8 stage smart charger for lead-acid batteries
- Microprocessor controlled power management
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Built-in temp. compensation function
- Status signal sent by relay contacts
- 3 color LED loading indicator
- Built-in remote ON-OFF control
- Fan speed control (depend on charging current)
- **Charging curve can be modified for different battery applications (optional)**
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current (max.) ... Cold start, 50A at 230VAC
 Over voltage protection 112%~125% shut off, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards TUV EN60335-1, EN60335-2-29(except for 48V), EN60950-1(48V only), UL1012 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection IEC inlet for input; copper pillars for output
 Packing 2.2kg ; 6pcs / 14.2kg / 1.76CUFT

Model No.	Output	Effi.
PB-600-12	14.4V, 0~40.0A	86%
PB-600-24	28.8V, 0~21.0A	87%
PB-600-48	57.6V, 0~10.5A	89%

600W Single Output Battery Charger



CASE: 228A 280x 144x 48.5 mm

- 3 stage charging characteristic
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- No load power consumption < 0.5W at remote OFF
- **High efficiency up to 95.5%**
- Protections: Short circuit / OVP / OTP
- **Fanless design, cooling by free air convection**
- Vo and Io can be adjusted through internal potentiometer
- Aluminum case and filling with heat-conducted glue
- Withstand 5G vibration test
- Charger for lead-acid batteries
- 3 color LED loading indicator
- 5 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current (max.) ... Cold start, 70A at 230VAC
 DC adjustment range -20%~+5% rated output voltage
 Current adjustment range 50%~100% rated output current
 Over voltage protection 112%~142% shut off, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC
 Working temperature -40~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 conduction class B, radiation class A
 EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Connection +7P/11mm pitch terminal block with cover

Model No.	Output	Effi.
HEP-600C-12	14.4V, 0~35.0A	93.5%
HEP-600C-24	28.8V, 0~21.0A	94.5%
HEP-600C-48	57.6V, 0~10.5A	95.5%

1000W Single Output Battery Charger



CASE: 804B 300x 184x 70 mm

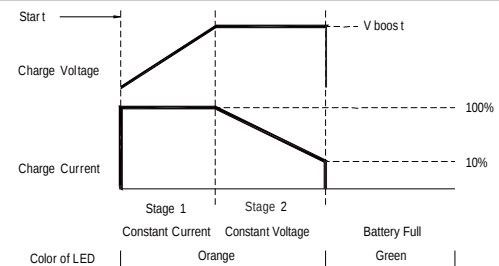
- 2/3/8 stage smart charger for lead-acid batteries
- Microprocessor controlled power management
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Reverse polarity / Short circuit / Over voltage / Over temperature
- Built-in temp. compensation function
- Can be connected to 2 battery banks
- Status signal sent by relay contacts
- 3 color LED loading indicator
- Built-in remote ON/OFF control
- Fan speed control
- **Charging curve can be modified for different battery applications (optional)**
- 3 years warranty

AC input voltage range 90~264VAC ; 127~370VDC
 AC inrush current (max.) Cold start, 50A at 230VAC
 Over voltage protection 110%~125% shut off, re-power on to recover
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B conducted, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3
 Connection IEC inlet for input; copper pillars for output
 Packing 3.5kg ; 4pcs / 15kg / 1.83CUFT

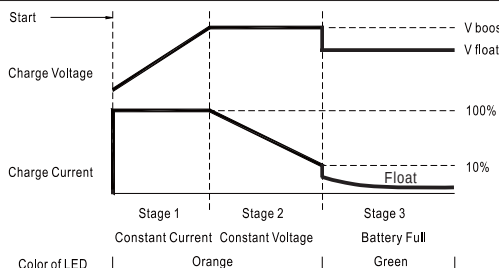
Model No.	Output	Effi.
PB-1000-12	14.4V, 60.0A	85%
PB-1000-24	28.8V, 34.7A	88%
PB-1000-48	57.6V, 17.4A	89%

Built-in Charging Curves for PB-600 and PB-1000

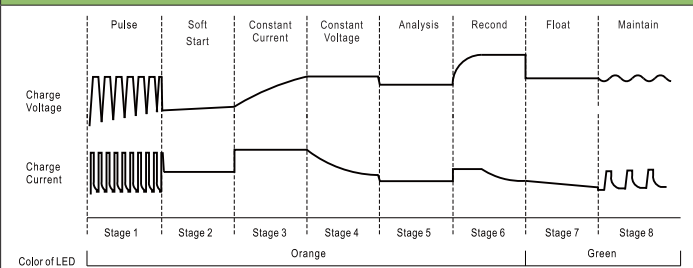
2-Stage Charging Curve



3-Stage Charging Curve



8-Stage Charging Curve





RCP-1000
CASE: 952A 295x 127x 41mm



RCP-1U
CASE: 959A 483.6x 350.8x 44mm

Features

- Universal AC input / Full range
- Built-in 5V/0.3A auxiliary power
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- High power density 10.7W/inch³
- 1U low profile: 44mm
- Vo can be trimmed between 90% ~ 110% of the rated output voltage
- Active current sharing up to 3000W (3 units) in one 19" rack, 3 racks max. can be operated in parallel (up to 8 units)
- Remote control for single unit
- Built-in remote sense function
- Hot-swap operation
- Internal OR-ing diode
- AC OK and DC OK signal output
- Optional I²C serial data bus
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Order No.	RCP-1000
AC input voltage range	90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 50A at 230VAC
DC adjustment range	±3% rated output voltage
Overload protection	105%~125% constant current limiting, auto-recovery
Over voltage protection	110%~135% rated output voltage
Leakage current	<1.1mA at 230VAC
Setup, rise, hold up time	1000ms, 60ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 0.7kVDC
Working temperature	-20~+60°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level
Packing	1.93kg (RCP-1000, single unit); 3.9kg (RCP-1U, empty rack)

Single unit — 1000W

Model No.	Output	Tol.	R&N	Effi.
RCP-1000-12	12V, 0~60A	±1%	150mV	81%
RCP-1000-24	24V, 0~40A	±1%	200mV	87%
RCP-1000-48	48V, 0~21A	±1%	300mV	89%

Order Information

Single Unit: RCP-1000-**12**-**C**
 Rack: RCP-1U-**I**

C : with I²C interface
- : without I²C interface
 Output voltage(12V/24V/48V)
I : AC inlet(IEC320-C14)
T : Terminal block

Control and Monitor Unit for RCP-1000



CASE: 701A
440x 68x 44 mm

- 1U low profile
- 19-inch rack mounting
- I²C decoder, control and monitor up to 3 RCP-1000-□-C units
- Suitable for all kinds of RCP-1000 output (12V,24V,48V)
- Digital meters for output voltage, output current, and internal temperature on front panel
- Potentiometer for adjusting output voltage of RCP-1000 unit on front panel
- Relay contacts and LED indicators for AC fail, DC fail, and over temperature warning
- Removable fixing accessory
- 3 years warranty

AC input voltage range ... 90~264VAC, 127~370VDC
 AC inrush current Cold start, 30A at 115VAC, 50A at 230VAC
 Relay contact rating 30VDC, 1A
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards Design refer to UL60950-1, TUV EN60950-1
 Withstand voltage I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC
 Isolation resistance I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
 Contection Screw DIN terminal for AC input and relay contact output; D-Type right angle 25 positions for communication port

Model No.	Application
RCP-MU	Control and monitor RCP-1000 series



RCP-2000
CASE: 974A 295x 127x 41mm



RKP-1U
CASE: 959A 483.6x 350.8x 44mm

Features

- Universal AC input / Full range
- Withstand 300VAC surge for 5 secs.
- Built-in 5V/0.3A, 12V/0.8A auxiliary power
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Internal OR-ing FET
- High power density 21.4W/inch³
- 1U low profile: 44mm
- Active current sharing up to 6000W (3 units) in one 19" rack, 3 racks max. can be operated in parallel (up to 9 units)
- Remote control for single unit
- Built-in remote sense function
- Hot-swap operation
- PMBus serial communication
- AC OK and DC OK signal, fan fail, OTP alarm signal
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)

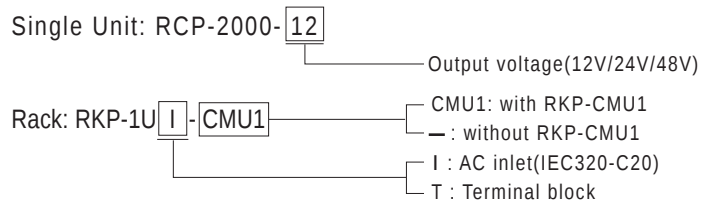


Order No.	RCP-2000
AC input voltage range	90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 50A at 230VAC
DC adjustment range	-12%~+15% rated output voltage
Overload protection	105%~125% constant current limiting, shut off after 5 sec., re-power on to recover
Over voltage protection	120%~145% rated output voltage
Leakage current	<1.1mA at 230VAC
Setup, rise, hold up time	1500ms, 60ms, 10ms at full load and 230VAC
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-F/G: 0.7kVDC
Working temperature	-40~+70°C (refer to output derating curve)
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level
Packing	2kg (RCP-2000, single unit); 4.18kg (RKP-1U, empty rack)

Single unit — 2000W

Model No.	Output	Tol.	R&N	Effi.
RCP-2000-12	12V, 0~100A	±2%	150mV	86.0%
RCP-2000-24	24V, 0~80A	±1%	200mV	90.5%
RCP-2000-48	48V, 0~42A	±1%	300mV	92.0%

Order Information



Control and Monitor Unit for RCP-2000



RKP-CMU1



CASE:959A
147.5x 127x 41 mm

RKP-1UI-CMU1



CASE: 959D
486.6x 350.8x 44 mm

- 1U low profile
- 19-inch rack mounting
- Control and monitor up to 32 RCP-2000 units
- Front panel LCD and buttons for on-site service without PC
- Alarm/event log with time and date
- Easy wire connections on rear side
- Windows-based PC communication software
- USB, RS-232 or Ethernet interface for PC connection locally or remote monitoring and control via GSM modem
- 4 user programmable relay outputs for traditional remote or warning
- 3 years warranty

DC input voltage range	 12~15VDC
DC input current	 1A at 12VDC, 0.8A at 15VDC
Output relay contact	 4 user programmable relay
Working temperature	 -25~+70°C (refer to output derating curve)
Safety standards	 UL60950-1, TUV EN60950-1 approved for RKP-1U I -CMU1
Withstand voltage	 I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-FG:0.7kVDC for RKP-1U I -CMU1; O/P-FG:0.7kVDC for RKP-CMU1
Isolation resistance	 I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC for RKP-1U I -CMU1; O/P-FG:100M Ohms/500VDC for RKP-CMU1
EMC standards	 EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-1 light industry level

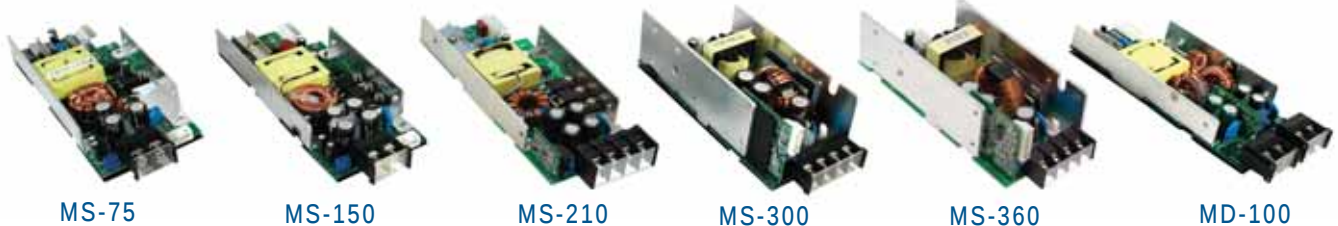
Model No.	Application
RKP-CMU1	Control and monitor RCP-2000 series (single unit of RKP-CMU1)
RKP-1U I -CMU1	Control and monitor RCP-2000 series (19" rack with RKP-CMU1)



MP450 (450W, 5 SLOT)

MP650 (650W, 5 SLOT)

MP1K0 (1000W, 7 SLOT)



MS-75

MS-150

MS-210

MS-300

MS-360

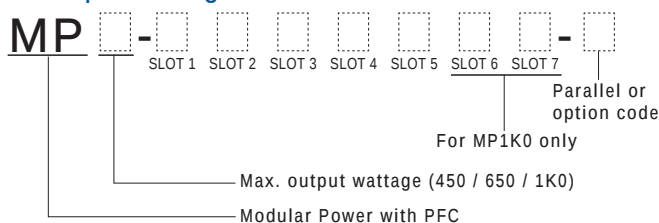
MD-100

■ Description

Modular series are switching power supplies with modular design that consist of two stages: front-end PFC and output modules. Using ZVS (Zero Voltage Switching) technology to realize the power factor correction, the line input is rectified into high DC voltage (around 390VDC) by the front-end PFC stage, and then the DC output modules will transfer the operating voltage into all kinds of DC output voltages from 1.6V~53V. Right now we offer 75W, 150W, 210W, 300W, 360W single output modules and 100W dual output modules to fulfill all kinds of applications up to 14 isolated outputs.

There are millions of combinations available for the Modular series. Users can configure the DC outputs they need and get the fastest solution for their own power requirement with safety and EMC certificates. No more NRE / safety application charges and long period of waiting for certificates! Providing standard products as usual, MEAN WELL offer you a revolutionary standard power solution that fulfills your custom-made request!

■ Output Configuration Guide



Example:

MP650-1A 2 E H U

SLOT5-O/P:24V@2.5A, 5V@8A

SLOT4-O/P:24V@6.5A

SLOT2,3-O/P:12V@25A

SLOT-O/P:2V@35A

■ Features

- Millions of output configuration is available
- ZVS technology to reduce power dissipation and improve efficiency
- Universal AC input / Full range
- Built-in active PFC compliance to EN61000-3-2
- Built-in constant current limiting circuit for single output modules
- Remote control on each output module
- Remote sense on each single output module (MS-75 / 150 / 210 / 300 / 360)
- Short circuit / Overload / Over voltage protections for all modules
- Parallel function for MS-210 (up to 5 units), MS-300/360 (up to 3 units)
- Margining control function (MS-210 / 360)
- Cooling by built-in DC fan with fan alarm function
- Additional 12V/0.1A auxiliary output for remote control
- 3 years warranty

■ **General Specification** (Please refer to www.meanwell.com for detail spec.)



Model No.	MP450	MP650	MP1K0
AC input voltage range	85~264VAC or 120~370VDC		
Power Factor	PF >0.95 / 230VAC, PF > 0.98 / 115VAC at full load		
AC inrush current (max.)	Cold start, 40A at 230VAC	Cold start, 50A at 230VAC	Cold start, 40A at 230VAC
Max output voltage	450W	650W	1000W
Efficiency (typical)	82.5%	84%	84%
Over temperature protection	Output shutdown, auto-recovery		
Fan alarm	Output shutdown when fan malfunction		
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC, 1 minute		
Working temperature	-20~+50°C@100%, +70°C @ 50% load		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN55024 light industry level, criteria A		
Connection	Input side: 3P/10mm pitch terminal block & JST B3B-XH		
Dimension (LxWxH)(mm)	254x 127x 63.5	278x 127x 63.5	278x 177.8x 63.5

MS-75: 1-SLOT single output (75W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
L	3.3V, 0~15A	17.3A	2.6~4.0V	±2%	80mV
M	5V, 0~15A	17.3A	4.0~6.0V	±2%	80mV
N	12V, 0~6.3A	7.30A	9.0~13.2V	±1%	150mV
O	15V, 0~5.0A	5.80A	13.2~16.8V	±1%	150mV
P	24V, 0~3.2A	3.70A	20.0~26.4V	±1%	150mV
Q	48V, 0~1.6A	1.80A	40.0~53.0V	±1%	250mV

MS-150: 1-SLOT single output (150W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
A	2V, 0~25A	30.0A	1.6~2.6V	±3%	50mV
B	3.3V, 0~25A	30.0A	2.6~4.0V	±2%	80mV
C	5V, 0~25A	30.0A	4.0~6.0V	±2%	80mV
D	7.5V, 0~18A	20.7A	6.0~9.0V	±2%	100mV
E	12V, 0~13A	15.0A	9.0~13.2V	±1%	150mV
F	15V, 0~10A	11.5A	13.2~16.8V	±1%	150mV
G	18V, 0~8.5A	9.80A	16.8~20.0V	±1%	150mV
H	24V, 0~6.5A	7.50A	20.0~26.4V	±1%	150mV
I	27V, 0~5.8A	6.70A	25.0~31.0V	±1%	150mV
J	33V, 0~4.7A	5.40A	30.0~40.0V	±1%	250mV
K	48V, 0~3.2A	3.68A	40.0~53.0V	±1%	250mV

MS-210: 1-SLOT parallelable single output (210W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
1A	2V, 0~35A	38.5A	1.6~2.6V	±3%	70mV
1B	3.3V, 0~35A	38.5A	2.6~4.0V	±2%	80mV
1C	5V, 0~35A	38.5A	4.0~6.0V	±2%	80mV
1D	7.5V, 0~28A	32.2A	6.0~9.0V	±2%	100mV
1E	12V, 0~17.5A	20.1A	9.0~13.2V	±1%	150mV
1F	15V, 0~14A	16.1A	13.2~16.8V	±1%	150mV
1G	18V, 0~11.6A	13.4A	16.8~20.0V	±1%	150mV
1H	24V, 0~8.75A	10.1A	20.0~26.4V	±1%	150mV
1I	27V, 0~7.8A	9.00A	25.0~31.0V	±1%	150mV
1J	33V, 0~6.4A	7.40A	30.0~40.0V	±1%	250mV
1K	48V, 0~4.4A	5.10A	40.0~53.0V	±1%	250mV

MS-300: 2-SLOT parallelable single output (300W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
2A	2V, 0~50A	57.5A	1.6~2.6V	±3%	80mV
2B	3.3V, 0~50A	57.5A	2.6~4.0V	±2%	80mV
2C	5V, 0~50A	57.5A	4.0~6.0V	±2%	80mV
2D	7.5V, 0~40A	46.0A	6.0~9.0V	±2%	100mV
2E	12V, 0~25A	29.0A	9.0~13.2V	±1%	150mV
2F	15V, 0~20A	23.0A	13.2~16.8V	±1%	150mV
2G	18V, 0~16.7A	19.2A	16.8~20.0V	±1%	150mV
2H	24V, 0~12.5A	14.4A	20.0~26.4V	±1%	150mV
2I	27V, 0~11.2A	12.9A	25.0~31.0V	±1%	200mV
2J	33V, 0~9.1A	10.5A	30.0~40.0V	±1%	250mV
2K	48V, 0~6.3A	7.2A	40.0~53.0V	±1%	300mV

MS-360: 2-SLOT parallelable single output (360W max.)

Item Code	Output	★Peak I	Vdc adj.	Tol.	R&N.
3A	2V, 0~60A	69.0A	1.6~2.6V	±3%	80mV
3B	3.3V, 0~60A	69.0A	2.6~4.0V	±2%	100mV
3C	5V, 0~60A	69.0A	4.0~6.0V	±2%	100mV
3D	7.5V, 0~48A	55.2A	6.0~9.0V	±2%	100mV
3E	12V, 0~30A	34.5A	9.0~13.2V	±1%	150mV
3F	15V, 0~24A	27.6A	13.2~16.8V	±1%	150mV
3G	18V, 0~20A	23.0A	16.8~20.0V	±1%	150mV
3H	24V, 0~15A	17.3A	20.0~26.4V	±1%	150mV
3I	27V, 0~13.4A	15.5A	25.0~31.0V	±1%	200mV
3J	33V, 0~11A	12.7A	30.0~40.0V	±1%	250mV
3K	48V, 0~7.5A	8.7A	40.0~53.0V	±1%	300mV

MD-100: 1-SLOT isolated dual output (100W max.)

Item Code	Output	Vdc adj.	Tol.	R&N.	Max.
R	5V, 2.0~10A	4.75~5.5V	±3%	100mV	90.0W
	5V, 0.0~8.0A	4.75~5.5V	±3%	100mV	
S	5V, 2.0~10A	4.75~5.5V	±3%	100mV	100.4W
	12V, 0.0~5.8A	11.4~13.2V	±3%	150mV	
T	5V, 2.0~10A	4.75~5.5V	±3%	100mV	101.0W
	15V, 0.0~4.7A	14.2~16.5V	±3%	150mV	
U	24V, 0.5~3.0A	22.8~26.4V	±3%	200mV	100.0W
	5V, 0.0~10A	4.75~5.5V	±3%	100mV	
V	24V, 0.6~3.0A	22.8~26.4V	±2%	240mV	100.8W
	12V, 0.0~4.7A	11.4~13.2V	±3%	120mV	
W	12V, 1.0~5.0A	11.4~13.2V	±2%	120mV	100.8W
	12V, 0.0~5.8A	11.4~13.2V	±3%	120mV	
X	15V, 1.0~4.7A	14.2~16.5V	±2%	150mV	100.5W
	15V, 0.0~4.7A	14.2~16.5V	±3%	150mV	

Parallel Connection Accessory

FAP-001 (For MS-300, 2 units)	
FAP-002 (For MS-300, 3 units)	
FAP-003 (For MS-210, 2 units)	
FAP-004 (For MS-210, 3 units)	
FAP-005 (For MS-210, 4 units)	
FAP-006 (For MS-210, 5 units)	
FAP-007 (For MS-360, 2 units)	
FAP-008 (For MS-360, 3 units)	

Series Connection Accessory

FAS-001 (For 1-slot modules: MS-75/150, MD-100)	
FAS-002 (For 2-slot modules: MS-300)	
FAS-003 (For 1-slot modules: MS-210)	
FAS-004 (For 2-slot modules: MS-360)	

★Peak I: 35% duty cycle maximum within every 10 seconds. Average output power should not exceed the rated power.

★Please use MP450-CNPOQ, MP650-1A2EHU, MP1K0-2C2CEKL-1.....etc. as the order code. For more detail information about technical issues, please refer to the user manual.

★Please refer to the user manual for more detail information about parallel connection and the parallel codes. About series connection, please contact us or your local MEAN WELL distributor for more details.

350W Single Output

UL US CQC CB
(except for 12V)



220.4x 130x 48 mm

- AC input 180~264VAC only
- Withstand 300VAC surge input for 5 sec
- **Semi-potted and design against rain splash**
- High efficiency up to 90%
- Protections:
Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- LED indicator for power on
- **Suitable for channel letter applications**
- 3 years warranty

AC input voltage range 180~264VAC; 254~370VDC
AC inrush current Cold start, 90A at 230VAC
DC adjustment range $\pm 10\%$ rated output voltage
Overload protection 110%~160% hiccup mode, auto-recovery
Over voltage protection 12V: 13.8~16.2V; 24V: 27.6~32.4V; 36V: 41.4~46.8V;
48V: 57.6~67.2V hiccup mode, auto-recovery
Setup, rise, hold up time 1500ms, 200ms, 20ms at full load and 230VAC
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature -30~+60°C (refer to output derating curve)
Safety standards UL60950-1, CQC GB4943.1 approved

Model No.	Output	Tol.	R&N	Effi.
NEW ERP-350-12	12V, 0~26.7A	$\pm 1\%$	150mV	87%
ERP-350-24	24V, 0~14.6A	$\pm 1\%$	150mV	89%
ERP-350-36	36V, 0~9.7A	$\pm 1\%$	240mV	90%
ERP-350-48	48V, 0~7.3A	$\pm 1\%$	240mV	90%

200W & 300W Single Output

- 115VAC or 230VAC AC input
- Cooling by conduction
- 1U low profile: 31mm
- **Conformal coating**
- Protections:
Short circuit / Overload / Over voltage / Over temperature
- LED indicator for power on
- 2 years warranty

UL US



HSN-200
210x 62x 31 mm

HSN-300
210x 81x 31 mm

AC input voltage range 90~132VAC(A-Type); 180~264VAC(B-Type)
AC inrush current Cold start, 80A(HSN-200); 90A(HSN-300) at 230VAC
DC adjustment range 4.2V: 3.6~4.4V; 5V: 4.5~5.5V
Overload protection 105%~185% hiccup mode, auto-recovery
Over voltage protection 4.2V: 4.6~5.4V, 5V: 5.7~7.0V for HSN-200;
4.2V: 4.7~5.7V, 5V: 5.7~7.0V for HSN-300
Setup, rise, hold up time 1500ms, 100ms, 20ms at 230VAC and full load (HSN-200)
2500ms, 100ms, 10ms at 230VAC and full load (HSN-300)
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature -25~+70°C (HSN-200); -20~+70°C (HSN-300)
Safety standards UL60950-1 approved

✦ HSN-200 Series

Model No.	Output	Tol.	R&N	Effi.
HSN-200-4.2A	4.2V, 0~30A	$\pm 2\%$	150mV	86.5%
HSN-200-4.2B	4.2V, 0~40A	$\pm 2\%$	150mV	88%
HSN-200-5A	5V, 0~30A	$\pm 2\%$	150mV	86.5%
HSN-200-5B	5V, 0~40A	$\pm 2\%$	150mV	88%

✦ HSN-300 Series

Model No.	Output	Tol.	R&N	Effi.
HSN-300-4.2A	4.2V, 0~50A	$\pm 3\%$	150mV	85%
HSN-300-4.2B	4.2V, 0~60A	$\pm 3\%$	150mV	85%
HSN-300-5A	5V, 0~50A	$\pm 3\%$	150mV	86%
HSN-300-5B	5V, 0~60A	$\pm 3\%$	150mV	86%

200W Single Output

UL US



215x 115x 30 mm

- AC input 180~264VAC only
- Withstand 300VAC surge input for 5 sec
- **Conformal coating**
- High efficiency up to 87% (NEL-200)
- Protections:
Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 1U low profile: 30mm
- LED indicator for power on
- **Suitable for moving sign applications**
- 2 years warranty

AC input voltage range 180~264VAC; 254~370VDC
AC inrush current Cold start, 70A at 230VAC
DC adjustment range 2.8V: 2.5~3V; 4.2V: 3.6~4.4V; 5V: 4.5~5.5V
Overload protection 105%~140% hiccup mode, auto-recovery
Over voltage protection 2.8V: 3.22~3.78V; 4.2V: 4.6~5.4V; 5V: 5.6~7V
hiccup mode, auto-recovery
Setup, rise, hold up time 2500ms, 50ms, 20ms at full load and 230VAC
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature -20~+60°C (refer to output derating curve)
Safety standards UL60950-1 approved

Model No.	Output	Tol.	R&N	Effi.
NEL-200-2.8	2.8V, 0~40A	+3%, -4.5%	150mV	85%
NEL-200-4.2	4.2V, 0~40A	+3%, -4.5%	150mV	87%
NEL-200-5	5V, 0~40A	$\pm 3\%$	150mV	87%

300W & 400W Single Output

- AC input 180~264VAC only
- Withstand 300VAC surge input for 5 seconds
- **Conformal coating**
- High efficiency up to 86% (NEL-300)
High efficiency up to 84% (NEL-400)
- 1U low profile: 30mm
- Protections:
Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- LED indicator for power on
- **Suitable for moving sign applications**
- 2 years warranty

UL US



NEL-300
215x 115x 30 mm

NEL-400
215x 115x 30 mm

AC input voltage range 180~264VAC; 254~370VDC
AC inrush current Cold start, 70A at 230VAC
DC adjustment range 2.8V: 2.5~3V; 4.2V: 3.6~4.4V; 5V: 4.5~5.5V
Overload protection 105%~140% hiccup mode, auto-recovery
Over voltage protection 2.8V: 3.22~3.78V; 4.2V: 4.6~5.4V; 5V: 5.6~7V
hiccup mode, auto-recovery
Setup, rise, hold up time 2500ms, 50ms, 20ms at full load and 230VAC
Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature -20~+60°C (refer to output derating curve)
Safety standards UL60950-1 approved

✦ NEL-300 Series

Model No.	Output	Tol.	R&N	Effi.
NEL-300-2.8	2.8V, 0~60A	+3%, -4.5%	150mV	81%
NEL-300-4.2	4.2V, 0~60A	+3%, -4.5%	150mV	85%
NEL-300-5	5V, 0~60A	$\pm 3\%$	150mV	86%

✦ NEL-400 Series

Model No.	Output	Tol.	R&N	Effi.
NEL-400-2.8	2.8V, 0~80A	+3%, -4.5%	150mV	79%
NEL-400-4.2	4.2V, 0~80A	+3%, -4.5%	150mV	83%
NEL-400-5	5V, 0~80A	$\pm 3\%$	150mV	84%

150W & 200W Single Output with PFC Function

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds (HSP-150)
- Built-in active PFC function
- **Conformal coating**
- **High efficiency up to 90%**
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection for 150W and 200W with 30CFM forced air(HSP-150); cooling by conduction(HSP-200)
- 1U low profile
- Built-in remote sense(HSP-150)
- LED indicator for power on
- **Suitable for moving sign applications**
- 3 years warranty



(HSP-200 only)



AC input voltage range 90~264VAC; 127~370VDC
 AC inrush current Cold start, 70A at 230VAC
 DC adjustment range 2.5V: 2.35~2.75V, 3.8V: 3.4~4.2V, 5V: 4.5~5V (HSP-150); 4.2V: 3.6~4.4V, 5V: 4.5~5.5V (HSP-200)
 Overload protection 110%~180% hiccup mode, auto-recovery
 Over voltage protection 2.5V: 3.2~3.7V, 3.8V: 4.7~5.7V, 5V: 5.7~7.0V (HSP-150); 4.2V: 4.6~5.4V, 5V: 5.6~7V (HSP-200)
 Setup, rise, hold up time 2000ms, 100ms, 16ms at full load and 230VAC (HSP-150) 2000ms, 200ms, 16ms at full load and 230VAC (HSP-200)
 Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-3
 EN61000-4-2,3,4,5,6,8,11

♦ HSP-150 Series

Model No.	Output(Rated/Peak)	Tol.	R&N	Effi.
HSP-150-2.5	2.5V, 0~30A / 40A	±2%	80mV	86%
HSP-150-3.8	3.8V, 0~30A / 40A	±2%	100mV	88%
HSP-150-5	5V, 0~30A / 40A	±2%	100mV	90%

♦ HSP-200 Series

Model No.	Output	Tol.	R&N	Effi.
HSP-200-4.2	4.2V, 0~40A	±2%	150mV	88.0%
HSP-200-5	5V, 0~40A	±2%	150mV	88.5%

250W Single Output with PFC Function



- Universal AC input / Full range
- Built-in active PFC function
- **Conformal coating**
- **High efficiency up to 87%**
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- 1U low profile: 41mm
- Built-in remote sense function
- LED indicator for power on
- **Suitable for moving sign applications**
- 3 years warranty

AC input voltage range 85~264VAC; 120~370VDC
 DC adjustment range 2.5V: 2.3~2.8V; 3.6V: 3.24~3.96V; 5V: 4.5~5.5V
 AC inrush current Cold start, 70A at 230VAC
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 2.5V: 2.88~3.38V; 3.6V: 4.14~4.86V; 5V: 5.75~6.75V shut down O/P voltage, re-power on to recover
 Setup, rise, hold up time 3000ms, 50ms, 16ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -40~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN55024, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2
 Packing 0.97kg ; 16pcs / 16.5kg / 0.87CUFT

Model No.	Output	Tol.	R&N	Effi.
HSP-250-2.5	2.5V, 0~50A	±2%	100mV	79%
HSP-250-3.6	3.6V, 0~50A	±2%	100mV	83%
HSP-250-5	5V, 0~50A	±2%	100mV	87%

300W Single Output with PFC Function



- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Built-in active PFC function
- **Conformal coating**
- **High efficiency up to 87%**
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- Cooling by conduction
- 1U low profile: 31mm
- LED indicator for power on
- **Suitable for moving sign applications**
- 3 years warranty

AC input voltage range 90~264VAC; 127~370VDC
 DC adjustment range 2.8V: 2.5~3V; 4.2V: 3.6~4.4V; 5V: 4.5~5.5V
 AC inrush current Cold start, 60A at 230VAC
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 2.8V: 3.22~3.78V; 4.2V: 4.6~5.4V; 5V: 5.7~7.0V shut down O/P voltage, re-power on to recover
 Setup, rise, hold up time 2000ms, 100ms, 8ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1, CCC GB4943 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, GB9254

Model No.	Output	Tol.	R&N	Effi.
HSP-300-2.8	2.8V, 0~60A	±2%	110mV	80%
HSP-300-4.2	4.2V, 0~60A	±2%	150mV	85%
HSP-300-5	5V, 0~60A	±2%	150mV	87%

190W & 240W Dual Output with PFC Function



- Universal AC input / Full range
- Built-in active PFC function
- **Conformal coating**
- **High efficiency up to 86%**
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- Fanless design (HDP-190); Forced air cooling by built-in DC fan (HDP-240)
- 1U low profile: 36mm
- **Suitable for moving sign applications**
- 3 years warranty

AC input voltage range 90~135VAC, 127~190VDC or 180~264VAC, 254~370VDC
 DC adjustment range V1: 3.6~4V; V2: 2.5~3V
 AC inrush current Cold start, 45A at 230VAC
 Overload protection V1+V2: 105%~150%, V2: 125%~170% hiccup mode, auto-recovery
 Over voltage protection V1: 4.37~5.13V, V2: 3.22~3.78V shut down O/P voltage, re-power on to recover
 Setup, rise, hold up time 1000ms, 50ms, 16ms at full load and 230VAC
 Withstand voltage I/P - O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
 Working temperature -30~+70°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1, CCC GB4943 approved
 EMC standards EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2, GB9254
 Packing 0.95kg ; 15pcs / 15.3kg / 0.7CUFT (HDP-190) 1kg ; 15pcs / 16kg / 0.7CUFT (HDP-240)

♦ HDP-190 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
HDP-190	3.8V, 0~40A	±2%	100mV	86%	192W
	2.8V, 0~22A	±2%	100mV		

♦ HDP-240 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
HDP-240	3.8V, 0~50A	±2%	100mV	84%	241W
	2.8V, 0~27.5A	±2%	100mV		



Features

- Universal AC input / 90~305VAC
- Built-in active PFC function
- High efficiency up to 94%
- Fanless design, cooling by free air convection
- Vo and Io can be adjusted through internal potentiometer
- Aluminum case and filling with heat-conducted glue
- -55~+70°C wide operating range
- Meet 6kV surge immunity level
- Withstand 10G vibration test
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Multiple models for choice:
 - A-Type: Standard model, IP65 rated. Vo and Io can be adjusted through internal potentiometer
 - Blank-Type: Optional model, IP68 rated
- Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, or outdoor environment
- 5 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	HEP-100	HEP-150	HEP-185
AC input voltage range	90~305VAC, 127~431VDC		
AC inrush current (max.)	Cold start, 60A at 230VAC		Cold start, 65A at 230VAC
DC adjustment range	-10%~+10% rated output voltage (A-Type only)		
Current adjustment range	60%~100% rated output current adjustment by internal potentiometer(A-Type only)		50%~100% rated output current adjustment by internal potentiometer(A-Type only)
Over current protection	105%~125% constant current limiting, auto-recovery		
Over voltage protection	108%~135% rated output voltage		
Setup, rise, hold up time	500ms, 50ms, 16ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature	-55~+70°C (refer to output derating curve)		
Safety standards	UL60950-1 approved ; Design refer to TUV EN60950-1		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11		
Connection	Input	UL rated, SJTW 18AWGx3C(30cm)	
	Output	SJTW 14AWGx2C(30cm)	
Dimension (LxWxH)(mm)	220x 68x 38.8		228x 68x 38.8

100W

HEP-100

Model No.	Output	Tol.	R&N	Effi.
HEP-100-12A	12V, 0~8.34A	±1.0%	120mV	92%
HEP-100-15A	15V, 0~6.67A	±1.0%	150mV	92%
HEP-100-24A	24V, 0~4.00A	±1.0%	150mV	93%
HEP-100-36A	36V, 0~2.65A	±1.0%	200mV	93%
HEP-100-48A	48V, 0~2.00A	±1.0%	200mV	93%
HEP-100-54A	54V, 0~1.77A	±1.0%	200mV	93%

□ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

185W

HEP-185

Model No.	Output	Tol.	R&N	Effi.
HEP-185-12A	12V, 0~13.0A	±2.5%	150mV	91.5%
HEP-185-15A	15V, 0~11.5A	±2.0%	150mV	92.0%
HEP-185-24A	24V, 0~7.80A	±1.0%	150mV	93.5%
HEP-185-36A	36V, 0~5.20A	±1.0%	200mV	93.5%
HEP-185-48A	48V, 0~3.90A	±1.0%	200mV	94.0%
HEP-185-54A	54V, 0~3.45A	±1.0%	200mV	94.0%

□ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

150W

HEP-150

Model No.	Output	Tol.	R&N	Effi.
HEP-150-12A	12V, 0~12.5A	±2.5%	150mV	91.5%
HEP-150-15A	15V, 0~10.0A	±2.0%	150mV	92.0%
HEP-150-24A	24V, 0~6.30A	±1.0%	150mV	93.0%
HEP-150-36A	36V, 0~4.20A	±1.0%	200mV	93.5%
HEP-150-48A	48V, 0~3.20A	±1.0%	200mV	94.0%
HEP-150-54A	54V, 0~2.80A	±1.0%	200mV	94.0%

□ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)



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NEW

TAIWAN EXCELLENCE 2015

Under Development

		240W / 320W ONLY	
		INPUT	OUTPUT
Standard			
	Optional (Contact MW for details)		

HEP-240/320

A

Blank

HEP-600

Features

- Universal AC input / 90~305VAC
- Built-in active PFC function
- No load power consumption <0.5W at remote OFF(HEP-600)
- **High efficiency up to 96%**
- Fanless design, cooling by free air convection
- Vo and Io can be adjusted through internal potentiometer
- Aluminum case and filling with heat-conducted glue
- -55~+70°C wide operating range (HEP-240/320);
-40~+70°C wide operating range (HEP-600)
- Meet 6kV surge immunity level (HEP-240/320)
- Withstand 10G vibration test
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Multiple models for choice (HEP-240/320):
A-Type: Standard model, IP65 rated. Vo and Io can be adjusted through internal potentiometer
Blank-Type: Optional model, IP68 rated
- **Suitable for general industrial applications at high/low temperature, high dust, high moisture, high vibration, or outdoor environment**
- **5 years warranty**

General Specification (Please refer to www.meanwell.com for detail spec.)

Model No.	HEP-240	HEP-320	HEP-600
AC input voltage range	90~305VAC; 127~431VDC		
AC inrush current (max.)	Cold start, 75A at 230VAC		Cold start, 70A at 230VAC
DC adjustment range	-10%~+10% rated output voltage (A-Type only)		-15%~+5% rated output voltage
Current adjustment range	50%~100% rated output current adjustment by internal potentiometer (HEP-240/320 for A-Type only)		
Over current protection	105%~125% constant current limiting, auto-recovery		
Over voltage protection	108%~135% rated output voltage		
Setup, rise, hold up time	500ms, 80ms, 15ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC
Working temperature	-55~+70°C (refer to output derating curve)		-40~+70°C(refer to output derating curve)
Safety standards	UL60950-1 approved ; Design refer to TUV EN60950-1		UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11		
Connection	Input	UL rated, SJTW 18AWGx3C (30cm)	
	Output	SJTW 14AWGx2C (30cm)	
Dimension (LxWxH)(mm)	244.2x 68x 38.8	252x 90x 43.8	280x 144x 48.5

HEP-240 Series



Model No.	Output	Tol.	R&N	Effi.
HEP-240-12A	12V, 0~16.0A	±2.5%	150mV	90.0%
HEP-240-15A	15V, 0~15.0A	±2.0%	150mV	90.0%
HEP-240-24A	24V, 0~10.0A	±1.0%	150mV	92.5%
HEP-240-36A	36V, 0~6.70A	±1.0%	250mV	92.5%
HEP-240-48A	48V, 0~5.00A	±1.0%	250mV	93.0%
HEP-240-54A	54V, 0~4.45A	±1.0%	350mV	93.5%

□ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

HEP-320 Series



Model No.	Output	Tol.	R&N	Effi.
HEP-320-12A	12V, 0~22.0A	±3.0%	150mV	91.0%
HEP-320-15A	15V, 0~19.0A	±2.0%	150mV	92.5%
HEP-320-24A	24V, 0~13.34A	±1.0%	150mV	94.0%
HEP-320-36A	36V, 0~8.90A	±1.0%	250mV	94.5%
HEP-320-48A	48V, 0~6.70A	±1.0%	250mV	95.0%
HEP-320-54A	54V, 0~5.95A	±1.0%	350mV	95.0%

□ = A or Blank, A: standard model(IP65), Blank: optional model(IP68)

HEP-600 Series



Model No.	Output	Tol.	R&N	Effi.
HEP-600-12	12V, 0~40A	±3.0%	150mV	93.0%
HEP-600-15	15V, 0~36A	±2.0%	150mV	94.0%
HEP-600-20	20V, 0~28A	±1.5%	150mV	95.0%
HEP-600-24	24V, 0~25A	±1.0%	150mV	95.0%
HEP-600-30	30V, 0~20A	±1.0%	200mV	95.5%
HEP-600-36	36V, 0~16.7A	±1.0%	250mV	95.5%
HEP-600-42	42V, 0~14.3A	±1.0%	250mV	96.0%
HEP-600-48	48V, 0~12.5A	±1.0%	250mV	96.0%
HEP-600-54	54V, 0~11.2A	±1.0%	350mV	96.0%



To satisfy customers is our goal —

- High Quality
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Features

- Single output with battery charger (UPS function)
- Universal AC input / Full range
- Can be installed on DIN rail TS-35/7.5 or 15
- Protections: Short circuit / Overload / Over voltage / Battery low protection / Battery reverse polarity protection by fuse
- Alarm signal for AC OK and battery low
- Cooling by free air convection
- Pass LPS (DRC-40/60)
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	DRC-40	DRC-60	DRC-100
AC input voltage range	90~264VAC; 127~370VDC		
AC inrush current (max.)	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	CH1, 13.8V: 12~15V; 27.6V: 24~30V		
Overload protection	105%~150% hiccup mode, auto-recovery		
Over voltage protection	105%~135% rated output voltage		
Setup, rise, hold up time	400ms, 50ms, 50ms at full load and 230VAC		2400ms, 50ms, 50ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working temperature	-30~+70°C (refer to output derating curve)		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11		
Connection	I/P: 3 poles, O/P: 8 poles screw DIN terminal		I/P: 3 poles, O/P: 10 poles screw DIN terminal
Case No.	962A		973A
Dimension (LxWxH)(mm)	40x 90x 100		55x 90x 100

40W DRC-40 NEW					
Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-40A	13.8V, 0~2.9A	±1%	120mV	86%	40W
	13.8V, 0~1.0A (Charger)				
DRC-40B	27.6V, 0~1.45A	±1%	200mV	87%	40W
	27.6V, 0~0.5A (Charger)				

60W DRC-60 NEW					
Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-60A	13.8V, 0~4.3A	±1%	120mV	86%	59W
	13.8V, 0~1.5A (Charger)				
DRC-60B	27.6V, 0~2.15A	±1%	200mV	88%	59W
	27.6V, 0~0.75A (Charger)				

100W DRC-100 NEW					
Model No.	Output	Tol.	R&N	Effi.	Max.
DRC-100A	13.8V, 0~7A	±1%	120mV	87%	97W
	13.8V, 0~2.5A (Charger)				
DRC-100B	27.6V, 0~3.5A	±1%	240mV	89%	97W
	27.6V, 0~1.25A (Charger)				



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Features

- Single output with battery charger (UPS function)
- Universal AC input / Full range
- PCB and enclosed type with metal case available
- Compact size
- Built-in active PFC function (PSC-160)
- Protections:
 - Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Alarm signal for AC OK and battery low
- Cooling by free air convection
- 100% full load, burn-in test
- 2 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.		PSC-35□	PSC-60□	PSC-100□	PSC-160□
AC input voltage range		90~264VAC; 127~370VDC			
AC inrush current (max.)		Cold start, 40A at 230VAC	60A at 230VAC	70A at 230VAC	
DC adjustment range		CH1, 13.8V: 12~15V; 27.6V: 24~29V			
Overload protection		105%~150% hiccup mode, auto-recovery			
Over voltage protection		CH1, 105%~135%, shut off, re-power on to recover	CH1, 105%~135%, hiccup mode, auto recovery	CH1, 105%~135%, shut off, re-power on to recover	
Withstand voltage		I/P-O/P:3kVAC, I/P-FG: 2kVAC, 1 minute	I/P-O/P:3kVAC, I/P-FG: 1.5kVAC, 1 minute		I/P-O/P:3kVAC, I/P-FG: 2kVAC, 1 minute
Working temperature		-30~+70°C	-20~+70°C (refer to output derating curve)		
Safety standards		UL60950-1, TUV EN60950-1 approved			
EMC standards		EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Connection		3+6P/3.96mm pitch, JST: B3P/B6P-VH		3+8P/3.96mm pitch, 4P/2.5mm pitch, JST: B3P/B8P-VH, B4B-XH	
Dimension (LxWxH)(mm)	PCB Type	84.6x 50.8x 24	101.6x 50.8x 29	127x 76.2x 31	152.4x 76.2x 32
	Enclosed Type	86.4x 59.6x 30	103.4x 62x 37	130x 85x 37	155.4x 85x 37

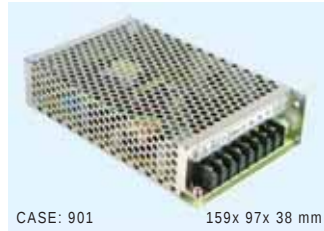
35W		PSC-35			
Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-35A	13.8V, 0~2.6A	±1%	120mV	84%	36W
	13.8V, 0~0.9A	(Charger)			
PSC-35B	27.6V, 0~1.3A	±1%	240mV	86%	36W
	27.6V, 0~0.45A	(Charger)			
□ = blank, -C ; Blank: PCB Type, -C: Enclosed Type					

100W		PSC-100			
Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-100A	13.8V, 0~7.0A	±1%	100mV	86%	100W
	13.8V, 0~2.5A	(Charger)			
PSC-100B	27.6V, 0~3.50A	±1%	100mV	88%	101W
	27.6V, 0~1.25A	(Charger)			
□ = blank, -C ; Blank: PCB Type, -C: Enclosed Type					

60W		PSC-60			
Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-60A	13.8V, 0~4.3A	±1%	120mV	84%	59W
	13.8V, 0~1.50A	(Charger)			
PSC-60B	27.6V, 0~2.15A	±1%	240mV	84%	59W
	27.6V, 0~0.75A	(Charger)			
□ = blank, -C ; Blank: PCB Type, -C: Enclosed Type					

160W		PSC-160			
Model No.	Output	Tol.	R&N	Effi.	Max.
PSC-160A	13.8V, 0~11.6A	±1%	150mV	88%	160W
	13.8V, 0~4A	(Charger)			
PSC-160B	27.6V, 0~5.8A	±1%	240mV	90%	160W
	27.6V, 0~2A	(Charger)			
□ = blank, -C ; Blank: PCB Type, -C: Enclosed Type					

55W 1~2 Output with Battery Charger



- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Battery low protection (except for ADS series)
- DC alarm signal (optional)
- Cooling by free air convection
- Fixed switching frequency at 45kHz
- Approvals: UL / CUL / TUV / CB / CE
- 100% full load burn-in test
- 2 years warranty

AC input voltage range 88~264VAC; 124~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range 12V, 24V: $\pm 10\%$
 13.8V: 12~14.5V; 27.6V: 24~29V
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection CH1: 105%~135% rated output voltage
 Setup, rise, hold up time 800ms, 50ms, 80ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11
 Connection 8P/ 8.25mm pitch terminal block
 Packing 0.57kg ; 24pcs / 13.7kg / 0.75CUFT

Single Output with 5V, 4A DC-DC Converter

Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-5512	12V, 0~4.0A	$\pm 1\%$	100mV	76%	51W
	5V, 0~4.0A	$\pm 3\%$	100mV		
ADS-5524	24V, 0~2.5A	$\pm 1\%$	100mV	79%	58W
	5V, 0~4.0A	$\pm 3\%$	100mV		

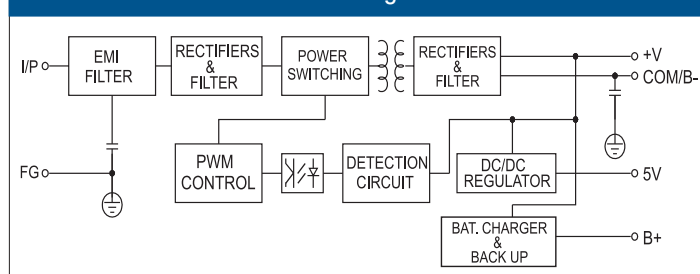
Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-55A	13.8V, 0~4.0A	$\pm 1\%$	100mV	71%	51W
	13.4V, 0~0.23A	(Charger)			
AD-55B	27.6V, 0~2.0A	$\pm 1\%$	100mV	74%	54W
	26.5V, 0~0.16A	(Charger)			

Dual Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
ADD-55A	13.8V, 0~3.50A	$\pm 1\%$	100mV	71%	53W
	5V, 0~4.00A	$\pm 3\%$	100mV		
	13.4V, 0~0.23A	(Charger)			
ADD-55B	27.6V, 0~2.00A	$\pm 1\%$	150mV	74%	55W
	5V, 0~4.00A	$\pm 3\%$	150mV		
	26.5V, 0~0.16A	(Charger)			

Block Diagram



155W 1~2 Output with Battery Charger and PFC Function



- Universal AC input / Full range
- PF>0.92@230VAC and full load
- Protections: Short circuit / Overload / Over voltage
- Battery low protection (except for ADS series)
- Cooling by free air convection
- Fixed switching frequency at 134kHz
- Approvals: UL / CUL / TUV / CB / CE
- 100% full load burn-in test
- 2 years warranty

AC input voltage range 88~264VAC; 124~370VDC
 AC inrush current Cold start, 20A at 115VAC, 40A at 230VAC
 DC adjustment range 12V, 24V, 48V: $\pm 10\%$
 13.8V: 12~14.5V; 27.6V: 24~29V; 54V: 48~58V
 Overload protection CH1,2: 105%~135%, charger: 0.51~0.9A;
 constant current limiting, auto-recovery
 Over voltage protection CH1: 115%~135% rated output voltage
 Setup, rise, hold up time ... 1000ms, 90ms, 24ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11
 Connection 8P/ 9.5mm pitch terminal block
 Packing 1.0kg ; 16pcs / 16.0kg / 0.95CUFT

Single Output with 5V, 3A DC-DC Converter

Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-15512	12V, 0~12.5A	$\pm 2\%$	150mV	77%	153W
	5V, 0~3.00A	$\pm 3\%$	100mV		
ADS-15524	24V, 0~6.50A	$\pm 1\%$	150mV	82%	154W
	5V, 0~3.00A	$\pm 3\%$	100mV		
ADS-15548	48V, 0~3.20A	$\pm 1\%$	240mV	82%	154W
	5V, 0~3.00A	$\pm 5\%$	100mV		

Single Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
AD-155A	13.8V, 0~11.5A	$\pm 2\%$	150mV	80%	152W
	13.3V, 0~0.50A	(Charger)			
AD-155B	27.6V, 0~5.50A	$\pm 1\%$	150mV	84%	152W
	27.1V, 0~0.50A	(Charger)			
AD-155C	54.0V, 0~2.70A	$\pm 1\%$	240mV	84%	157W
	53.5V, 0~0.50A	(Charger)			

Dual Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.
ADD-155A	13.8V, 0~10.5A	$\pm 1\%$	150mV	78%	153W
	5V, 0~3.00A	$\pm 3\%$	100mV		
	13.3V, 0~0.50A	(Charger)			
ADD-155B	27.6V, 0~5.00A	$\pm 1\%$	200mV	81%	153W
	5V, 0~3.00A	$\pm 3\%$	100mV		
	27.1V, 0~0.50A	(Charger)			
ADD-155C	54.0V, 0~2.50A	$\pm 1\%$	240mV	81%	150W
	5V, 0~3.00A	$\pm 5\%$	100mV		
	53.5V, 0~0.20A	(Charger)			

Security Series/ATX Power



35 ~ 75W Single Output

- Universal AC input / Full range
- Protections:
 - Short circuit / Overload / Over voltage / Battery reverse polarity protection by fuse
- Cooling by free air convection
- No load power consumption <0.75W
- Suitable for installation in metallic or non-metallic system enclosure
- Temperature compensation function
- LED indicator for power on
- 2 years warranty



AC input voltage range 85~264VAC; 120~370VDC
 DC adjustment range 95%~115% rated output voltage
 Overload protection 120%~165%, hiccup mode, auto-recovery
 Over voltage protection 120%~140%, rated output voltage
 Setup, rise, hold up time 500ms, 30ms, 50ms at full load and 230VAC
 Withstand voltage I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, 1minute
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards UL60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,3,
 EN61000-4-2,3,4,5,6,8,11
 Connection I/P: 3 poles, O/P: 2 poles screw terminal

✦ SCP-35 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
SCP-35-12	13.8V, 0~2.6A	±2%	120mV	83%	36W
SCP-35-24	27.6V, 0~1.4A	±1%	200mV	86%	39W

✦ SCP-50 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
SCP-50-12	13.8V, 0~3.6A	±2%	120mV	81%	50W
SCP-50-24	27.6V, 0~1.8A	±1%	200mV	85%	50W

✦ SCP-75 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
SCP-75-12	13.8V, 0~5.4A	±2%	120mV	81%	75W
SCP-75-24	27.6V, 0~2.7A	±1%	200mV	85%	75W

250 ~ 300W Industrial ATX PC Power Supply



- Universal AC input / Full range
- Low profile for 1U/2U rack system
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage
- With power good and fail signal output
- Forced air cooling by built-in DC fan
- PS-ON signal input
- 2 years warranty

AC input voltage range 90~264VAC, 127~370VDC
 Setup, rise, hold up time ... 800ms, 20ms, 16ms at 230VAC
 Overload protection 105%~150% shut off, re-power on to recover
 Over voltage protection 110%~140% rated output voltage for CH1~CH3
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG:2kVAC, 1minute
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards UL60950-1, TUV EN60950-1 approved
 EMC standards EN55022 class B, EN61000-3-2,-3,
 EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.	Max.
IPC-250	3.3V, 0~20A	±5%	50mV	75%	250W
	5V, 1~25A	±5%	50mV		
	12V, 1~15A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		
IPC-300A	3.3V, 0~20A	±5%	50mV	75%	300W
	5V, 1~30A	±5%	50mV		
	12V, 1~18A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		
IPC-300B	24V, 0~3.0A	±5%	240mV	80%	300W
	5V, 1~30A	±5%	50mV		
	12V, 1~18A	±7%	120mV		
	-5V, 0~0.5A	±8%	100mV		
	-12V, 0.1~1.0A	±10%	120mV		
	5VSB, 0~2.0A	±5%	50mV		



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0.5W DC-DC Regulated Single Output



0.89"x 0.39"x 0.33"

- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

1W DC-DC Unregulated Single Output



0.89"x 0.39"x 0.33"

- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration										
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Pin No.	Output										
1 & 16	+Vin										
6 & 11	-Vout										
7 & 10	+Vout										
8 & 9	-Vin										

Voltage set point accuracy... $\pm 2\%$ (typical)
 Line regulation $\pm 1\%$ (max.)
 Load regulation $\pm 1\%$ (max.)@10~100% load
 Input reflected ripple120mVp-p
 Efficiency 60% (typical)
 Short circuit protection Continuous, auto-recovery
 Switching frequency 50kHz (min.)
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material non-conductive plastic
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SRS-0505	5 $\pm 10\%$	5	100	100
SRS-0509	5 $\pm 10\%$	9	56	100
SRS-0512	5 $\pm 10\%$	12	42	100
SRS-0515	5 $\pm 10\%$	15	34	100
SRS-1205	12 $\pm 10\%$	5	100	100
SRS-1209	12 $\pm 10\%$	9	56	100
SRS-1212	12 $\pm 10\%$	12	42	100
SRS-1215	12 $\pm 10\%$	15	34	100
SRS-2405	24 $\pm 10\%$	5	100	100
SRS-2409	24 $\pm 10\%$	9	56	100
SRS-2412	24 $\pm 10\%$	12	42	100
SRS-2415	24 $\pm 10\%$	15	34	100
SRS-4805	48 $\pm 10\%$	5	100	100
SRS-4809	48 $\pm 10\%$	9	56	100
SRS-4812	48 $\pm 10\%$	12	42	100
SRS-4815	48 $\pm 10\%$	15	34	100

Mechanism	Pin Configuration										
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Pin No.	Output										
1 & 16	+Vin										
6 & 11	-Vout										
7 & 10	+Vout										
8 & 9	-Vin										

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 1.2\%$ (max.) for 1% input variation
 Load regulation $\pm 8\%$ (max.)@20~100% load
 Input reflected ripple 120mVp-p
 Efficiency 83% (typical)
 Short circuit protection Momentary
 Switching frequency 50kHz (min.)
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -25°C to +60°C (no derating), +71°C@80% load
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material non-conductive plastic
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SUS01L-05	5 $\pm 10\%$	5	200	100
SUS01L-09	5 $\pm 10\%$	9	111	100
SUS01L-12	5 $\pm 10\%$	12	84	100
SUS01L-15	5 $\pm 10\%$	15	67	100
SUS01M-05	12 $\pm 10\%$	5	200	100
SUS01M-09	12 $\pm 10\%$	9	111	100
SUS01M-12	12 $\pm 10\%$	12	84	100
SUS01M-15	12 $\pm 10\%$	15	67	100
SUS01N-05	24 $\pm 10\%$	5	200	100
SUS01N-09	24 $\pm 10\%$	9	111	100
SUS01N-12	24 $\pm 10\%$	12	84	100
SUS01N-15	24 $\pm 10\%$	15	67	100
SUS01O-05	48 $\pm 10\%$	5	200	100
SUS01O-09	48 $\pm 10\%$	9	111	100
SUS01O-12	48 $\pm 10\%$	12	84	100
SUS01O-15	48 $\pm 10\%$	15	67	100

1W DC-DC Unregulated Single Output



0.50"x 0.30"x 0.24"

- 1000VDC I/O isolation
- Internal SMD technology
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- SMD package style
- 100% full load burn-in test
- Low cost, high reliability
- 1 year warranty

Mechanism	Pin Configuration																		
Unit: mm(inch)	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr><td>1</td><td>-Vin</td></tr> <tr><td>2</td><td>+Vin</td></tr> <tr><td>3</td><td>NC</td></tr> <tr><td>4</td><td>-Vout</td></tr> <tr><td>5</td><td>+Vout</td></tr> <tr><td>6</td><td>NC</td></tr> <tr><td>7</td><td>NC</td></tr> <tr><td>8</td><td>NC</td></tr> </tbody> </table>	Pin No.	Output	1	-Vin	2	+Vin	3	NC	4	-Vout	5	+Vout	6	NC	7	NC	8	NC
Pin No.	Output																		
1	-Vin																		
2	+Vin																		
3	NC																		
4	-Vout																		
5	+Vout																		
6	NC																		
7	NC																		
8	NC																		

Voltage set point accuracy $\pm 8\%$ (max.)
 Line regulation $\pm 1.2\%$ (max.) for 1% input variation
 Load regulation $\pm 8\%$ (max.)@20~100% load
 Input reflected ripple 100mVp-p
 Efficiency 75% (typical)
 Short circuit protection Momentary
 Switching frequency 100kHz (typical)
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -40°C to +85°C
 Storage temperature -40°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material non-conductive plastic
 Safety standards UL60950-1 approved

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SBT01L-05	5 $\pm 10\%$	5	200	100
SBT01L-09	5 $\pm 10\%$	9	111	100
SBT01L-12	5 $\pm 10\%$	12	84	100
SBT01L-15	5 $\pm 10\%$	15	67	100
SBT01M-05	12 $\pm 10\%$	5	200	100
SBT01M-09	12 $\pm 10\%$	9	111	100
SBT01M-12	12 $\pm 10\%$	12	84	100
SBT01M-15	12 $\pm 10\%$	15	67	100

1W DC-DC Unregulated Single and Dual Output



0.60"x 0.295"x 0.255"

- 3000VDC I/O isolation
- Internal SMD technology
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- SMD package style
- 100% full load burn-in test
- Low cost, high reliability
- 1 year warranty

Mechanism

Unit: mm(inch)

TOP VIEW
 15.24
 12.7
 11.2 MAX
 7.5
 2.54
 6.25
 6.00
 2.54
 0.25
 4.13
 0.6x0.05

Pin Configuration

Pin No.	Output	
	Single	Dual
1	-Vin	-Vin
2	+Vin	+Vin
3	NC	NC
5	-Vout	COM
6	NC	-Vout
7	NC	NC
8	+Vout	+Vout
10	NC	NC
11	NC	NC
12	NC	NC

Voltage set point accuracy $\pm 8\%$ (max.)
 Line regulation $\pm 1.2\%$ (max.) for 1% input variation
 Load regulation $\pm 8\%$ (max.)@20~100% load
 Efficiency 79% (typical)
 Short circuit protection Momentary
 Switching frequency 100kHz (typical)
 I/O isolation voltage 3000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -40°C to +85°C
 Storage temperature -40°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material non-conductive plastic
 Safety standards UL60950-1, CSA C22.2 approved

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SFT01L-05	5 $\pm 10\%$	5	200	100
SFT01L-09	5 $\pm 10\%$	9	111	100
SFT01L-12	5 $\pm 10\%$	12	84	100
SFT01L-15	5 $\pm 10\%$	15	67	100
SFT01M-05	12 $\pm 10\%$	5	200	100
SFT01M-12	12 $\pm 10\%$	12	84	100
SFT01M-15	12 $\pm 10\%$	15	67	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DET01L-05	5 $\pm 10\%$	± 5	± 100	100
DET01L-09	5 $\pm 10\%$	± 9	± 56	100
DET01L-12	5 $\pm 10\%$	± 12	± 42	100
DET01L-15	5 $\pm 10\%$	± 15	± 33	100
DET01M-15	12 $\pm 10\%$	± 15	± 33	100



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Customer Satisfaction —
 Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.

1W DC-DC Regulated Single Output



0.77"x 0.28"x 0.4"

- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration										
Unit: mm (inch) FRONT VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>+Vout</td></tr> <tr> <td>2</td><td>-Vin</td></tr> <tr> <td>4</td><td>-Vout</td></tr> <tr> <td>6</td><td>+Vout</td></tr> </tbody> </table>	Pin No.	Output	1	+Vout	2	-Vin	4	-Vout	6	+Vout
Pin No.	Output										
1	+Vout										
2	-Vin										
4	-Vout										
6	+Vout										

Voltage set point accuracy ... $\pm 2\%$ (typical)

Line regulation $\pm 1\%$ (max.)

Load regulation $\pm 1\%$ (max.) @ 10~100% load

Efficiency 65% (typical)

Overload protection >110% hiccup mode, auto-recovery

Short circuit protection Continuous, auto-recovery

Switching frequency 50kHz (min.)

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100M Ω (min.)

Isolation capacitance 80pF (max.)

Working temperature -25~+71°C (refer to output derating curve)

Storage temperature -25°C to +105°C

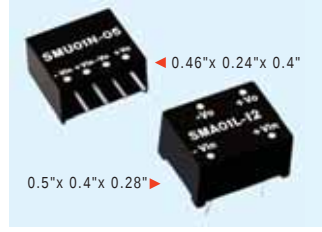
Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material non-conductive plastic

EMC Compliance to EN55022 class B,
EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPR01L-05	5 $\pm 10\%$	5	200	100
SPR01L-09	5 $\pm 10\%$	9	100	100
SPR01L-12	5 $\pm 10\%$	12	84	100
SPR01L-15	5 $\pm 10\%$	15	67	100
SPR01M-05	12 $\pm 10\%$	5	200	100
SPR01M-09	12 $\pm 10\%$	9	100	100
SPR01M-12	12 $\pm 10\%$	12	84	100
SPR01M-15	12 $\pm 10\%$	15	67	100
SPR01N-05	24 $\pm 10\%$	5	200	100
SPR01N-09	24 $\pm 10\%$	9	100	100
SPR01N-12	24 $\pm 10\%$	12	84	100
SPR01N-15	24 $\pm 10\%$	15	67	100
SPR01O-05	48 $\pm 10\%$	5	200	100
SPR01O-09	48 $\pm 10\%$	9	100	100
SPR01O-12	48 $\pm 10\%$	12	84	100
SPR01O-15	48 $\pm 10\%$	15	67	100

1W DC-DC Unregulated Single Output



0.5"x 0.4"x 0.28"

- 1500VDC I/O isolation
- Operating temperature range -40~85°C without derating
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package for SMA01
- 100% full load burn-in test
- Industry standard pinout
- 2 years warranty

Mechanism	Pin Configuration												
Unit: mm (inch) FRONT VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th colspan="2">SMU01</th></tr> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>-Vin</td></tr> <tr> <td>2</td><td>+Vin</td></tr> <tr> <td>3</td><td>-Vout</td></tr> <tr> <td>4</td><td>+Vout</td></tr> </tbody> </table>	SMU01		Pin No.	Output	1	-Vin	2	+Vin	3	-Vout	4	+Vout
SMU01													
Pin No.	Output												
1	-Vin												
2	+Vin												
3	-Vout												
4	+Vout												
Unit: mm (inch) SIDE VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th colspan="2">SMA01</th></tr> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>-Vin</td></tr> <tr> <td>4</td><td>+Vin</td></tr> <tr> <td>5</td><td>+Vout</td></tr> <tr> <td>7</td><td>-Vout</td></tr> </tbody> </table>	SMA01		Pin No.	Output	1	-Vin	4	+Vin	5	+Vout	7	-Vout
SMA01													
Pin No.	Output												
1	-Vin												
4	+Vin												
5	+Vout												
7	-Vout												

Voltage set point accuracy $\pm 2\%$ (max.)

Line regulation $\pm 1.2\%$ (max.) for 1% input variation

Load regulation $\pm 8\%$ (max.) @ 20~100% load

Input reflected ripple 100mVp-p

Efficiency 80% (typical)

Short circuit protection Momentary

Switching frequency 100kHz (min.)

I/O isolation voltage 1500VDC (min.)

I/O isolation resistance 100M Ω (min.) @ 500VDC

Isolation capacitance 80pF (max.)

Working temperature -40~+85°C (no derating)

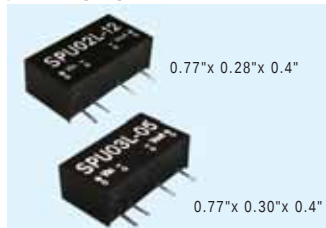
Storage temperature -55°C to +125°C

EMC Compliance to EN55022 class B,
EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SMU01L-05	5 $\pm 10\%$	5	200	100
SMU01L-09	5 $\pm 10\%$	9	110	100
SMU01L-12	5 $\pm 10\%$	12	84	100
SMU01L-15	5 $\pm 10\%$	15	67	100
SMU01M-05	12 $\pm 10\%$	5	200	100
SMU01M-09	12 $\pm 10\%$	9	110	100
SMU01M-12	12 $\pm 10\%$	12	84	100
SMU01M-15	12 $\pm 10\%$	15	67	100
SMU01N-05	24 $\pm 10\%$	5	200	100
SMU01N-09	24 $\pm 10\%$	9	110	100
SMU01N-12	24 $\pm 10\%$	12	84	100
SMU01N-15	24 $\pm 10\%$	15	67	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SMA01L-05	5 $\pm 10\%$	5	200	100
SMA01L-09	5 $\pm 10\%$	9	110	100
SMA01L-12	5 $\pm 10\%$	12	84	100
SMA01L-15	5 $\pm 10\%$	15	67	100
SMA01M-05	12 $\pm 10\%$	5	200	100
SMA01M-09	12 $\pm 10\%$	9	110	100
SMA01M-12	12 $\pm 10\%$	12	84	100
SMA01M-15	12 $\pm 10\%$	15	67	100
SMA01N-05	24 $\pm 10\%$	5	200	100
SMA01N-09	24 $\pm 10\%$	9	110	100
SMA01N-12	24 $\pm 10\%$	12	84	100
SMA01N-15	24 $\pm 10\%$	15	67	100

2~3W DC-DC Unregulated Single Output



- 3000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration										
Unit: mm(inch) FRONT VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>+Vin</td></tr> <tr> <td>2</td><td>-Vin</td></tr> <tr> <td>5</td><td>-Vout</td></tr> <tr> <td>7</td><td>+Vout</td></tr> </tbody> </table>	Pin No.	Output	1	+Vin	2	-Vin	5	-Vout	7	+Vout
Pin No.	Output										
1	+Vin										
2	-Vin										
5	-Vout										
7	+Vout										

Voltage set point accuracy ... $\pm 2\%$ (max.)

Line regulation $\pm 1.2\%$ (max.) for 1% input variation

Load regulation $\pm 8\%$ (max.) @20~100% load

Efficiency 83% (typical) for SPU02; 88% (typical) for SPU03

Short circuit protection Momentary

Switching frequency 100kHz (min.) for SPU02; 60kHz (min.) for SPU03

I/O isolation voltage 3000VDC (min.)

I/O isolation resistance 100M Ω (min.)

Isolation capacitance 80pF (max.)

Working temperature -40~+71°C (refer to output derating curve) for SPU02
-40~+90°C (refer to output derating curve) for SPU03

Storage temperature -40°C to +105°C

Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material non-conductive plastic

EMC Compliance to EN55022 class B,
EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPU02L-05	5 $\pm 10\%$	5	400	100
SPU02L-12	5 $\pm 10\%$	12	167	100
SPU02L-15	5 $\pm 10\%$	15	133	100
SPU02M-05	12 $\pm 10\%$	5	400	100
SPU02M-12	12 $\pm 10\%$	12	167	100
SPU02M-15	12 $\pm 10\%$	15	133	100
SPU02N-05	24 $\pm 10\%$	5	400	100
SPU02N-12	24 $\pm 10\%$	12	167	100
SPU02N-15	24 $\pm 10\%$	15	133	100

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPU03L-05	5 $\pm 10\%$	5	600	50
SPU03L-12	5 $\pm 10\%$	12	250	50
SPU03L-15	5 $\pm 10\%$	15	200	50
SPU03M-05	12 $\pm 10\%$	5	600	50
SPU03M-12	12 $\pm 10\%$	12	250	50
SPU03M-15	12 $\pm 10\%$	15	200	50
SPU03N-05	24 $\pm 10\%$	5	600	50
SPU03N-12	24 $\pm 10\%$	12	250	50
SPU03N-15	24 $\pm 10\%$	15	200	50

2~5W DC-DC Regulated Single Output



- 2:1 wide input range
- 4:1 wide input range (option) for 2W
- 1000VDC I/O isolation for 2W/3W
- 1500VDC I/O isolation for 5W
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Modified models available: output 3.3V / 9V
- 2 years warranty

Mechanism	Pin Configuration																
Unit: mm(inch) FRONT VIEW BOTTOM VIEW	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>-Vin</td></tr> <tr> <td>2</td><td>+Vin</td></tr> <tr> <td>3</td><td>R.C.</td></tr> <tr> <td>5</td><td>N.C.</td></tr> <tr> <td>6</td><td>+Vout</td></tr> <tr> <td>7</td><td>-Vout</td></tr> <tr> <td>8</td><td>N.C.</td></tr> </tbody> </table>	Pin No.	Output	1	-Vin	2	+Vin	3	R.C.	5	N.C.	6	+Vout	7	-Vout	8	N.C.
Pin No.	Output																
1	-Vin																
2	+Vin																
3	R.C.																
5	N.C.																
6	+Vout																
7	-Vout																
8	N.C.																

Voltage set point accuracy $\pm 2\%$ (max.)

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.) @10~100% load

Efficiency 85% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 150%~250%, auto-recovery

I/O isolation voltage 1000VDC (min.) for 2W/3W, 1500VDC (min.) for 5W

I/O isolation resistance 100M Ω (min.)

Working temperature -40~+85°C (refer to output derating curve)

Case material non-conductive plastic

EMC Compliance to EN55022 class B,
EN61000-4-2,3,4,5,6,8, FCC part15 class B

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPA02E-05	4.5~9	5	400	60
SPA02E-12	4.5~9	12	150	60
SPA02E-15	4.5~9	15	120	60
SPA02A-05	9~18	5	400	60
SPA02A-12	9~18	12	167	60
SPA02A-15	9~18	15	133	60
SPA02B-05	18~36	5	400	60
SPA02B-12	18~36	12	167	60
SPA02B-15	18~36	15	133	60
SPA02C-05	36~72	5	400	60
SPA02C-12	36~72	12	167	60
SPA02C-15	36~72	15	133	60

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPB03E-05	4.5~9	5	600	50
SPB03E-12	4.5~9	12	250	60
SPB03E-15	4.5~9	15	200	60
SPB03A-05	9~18	5	600	50
SPB03A-12	9~18	12	250	60
SPB03A-15	9~18	15	200	60
SPB03B-05	18~36	5	600	50
SPB03B-12	18~36	12	250	60
SPB03B-15	18~36	15	200	60
SPB03C-05	36~72	5	600	50
SPB03C-12	36~72	12	250	60
SPB03C-15	36~72	15	200	60

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SPB05A-05	9~18	5	1000	80
SPB05A-12	9~18	12	417	90
SPB05A-15	9~18	15	333	90
SPB05B-05	18~36	5	1000	80
SPB05B-12	18~36	12	417	90
SPB05B-15	18~36	15	333	90
SPB05C-05	36~72	5	1000	80
SPB05C-12	36~72	12	417	90
SPB05C-15	36~72	15	333	90

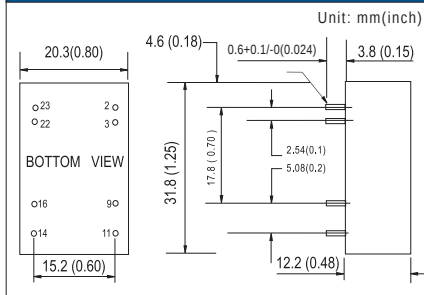
3W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 4:1 wide input range (option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 82% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -40~+71°C (refer to output derating curve)
 Storage temperature -40°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW03A-05	9~18	5	600	50
SCW03A-12	9~18	12	250	60
SCW03A-15	9~18	15	200	60
SCW03B-05	18~36	5	600	50
SCW03B-12	18~36	12	250	60
SCW03B-15	18~36	15	200	60
SCW03C-05	36~72	5	600	50
SCW03C-12	36~72	12	250	60
SCW03C-15	36~72	15	200	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW03A-05	9~18	± 5	± 300	50
DCW03A-12	9~18	± 12	± 125	60
DCW03A-15	9~18	± 15	± 100	60
DCW03B-05	18~36	± 5	± 300	50
DCW03B-12	18~36	± 12	± 125	60
DCW03B-15	18~36	± 15	± 100	60
DCW03C-05	36~72	± 5	± 300	50
DCW03C-12	36~72	± 12	± 125	60
DCW03C-15	36~72	± 15	± 100	60

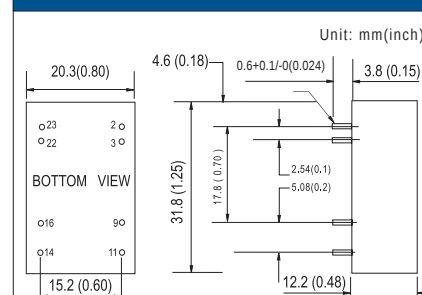
5~6W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@20~100% load
 Efficiency 85% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 150%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 80pF (max.)
 Working temperature -40~+71°C (refer to output derating curve)
 Storage temperature -40°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW05A-05	9~18	5	1000	50
SCW05A-09	9~18	9	556	60
SCW05A-12	9~18	12	470	60
SCW05A-15	9~18	15	400	60
SCW05B-05	18~36	5	1000	50
SCW05B-09	18~36	9	556	60
SCW05B-12	18~36	12	470	60
SCW05B-15	18~36	15	400	60
SCW05C-05	36~72	5	1000	50
SCW05C-09	36~72	9	556	60
SCW05C-12	36~72	12	470	60
SCW05C-15	36~72	15	400	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW05A-05	9~18	± 5	± 500	50
DCW05A-12	9~18	± 12	± 230	60
DCW05A-15	9~18	± 15	± 190	60
DCW05B-05	18~36	± 5	± 500	50
DCW05B-12	18~36	± 12	± 230	60
DCW05B-15	18~36	± 15	± 190	60
DCW05C-05	36~72	± 5	± 500	50
DCW05C-12	36~72	± 12	± 230	60
DCW05C-15	36~72	± 15	± 190	60

5W DC-DC Regulated Single and Dual Output



2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																				
Unit: mm(inch) The drawing shows a rectangular module with a width of 50.8 mm (2.00 inches) and a height of 25.4 mm (1.00 inches). The pin locations are defined by the following dimensions: Pin 1 is 10.2 mm (0.40 inches) from the left edge and 10.2 mm (0.40 inches) from the bottom edge. Pin 2 is 10.2 mm (0.40 inches) from the left edge and 10.2 mm (0.40 inches) from the bottom edge. Pin 3 is 15.3 mm (0.60 inches) from the left edge and 10.2 mm (0.40 inches) from the bottom edge. Pin 4 is 20.3 mm (0.80 inches) from the left edge and 10.2 mm (0.40 inches) from the bottom edge. Pin 5 is 15.2 mm (0.60 inches) from the left edge and 10.2 mm (0.40 inches) from the bottom edge. The module has a 5.8 mm (0.23 inches) wide pin header on the right side. The pin pitch is 11.27 mm (0.44 inches).	<table><tr><th rowspan="2">Pin No.</th><th colspan="2">Output</th></tr><tr><th>Single</th><th>Dual</th></tr><tr><td>1</td><td>+Vin</td><td>+Vin</td></tr><tr><td>2</td><td>-Vin</td><td>-Vin</td></tr><tr><td>3</td><td>+Vout</td><td>+Vout</td></tr><tr><td>4</td><td>No Pin</td><td>COM</td></tr><tr><td>5</td><td>-Vout</td><td>-Vout</td></tr></table>	Pin No.	Output		Single	Dual	1	+Vin	+Vin	2	-Vin	-Vin	3	+Vout	+Vout	4	No Pin	COM	5	-Vout	-Vout
Pin No.	Output																				
	Single	Dual																			
1	+Vin	+Vin																			
2	-Vin	-Vin																			
3	+Vout	+Vout																			
4	No Pin	COM																			
5	-Vout	-Vout																			

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 85% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25~+71°C (refer to output derating curve)
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SLW05A-05	9~18	5	1000	50
SLW05A-09	9~18	9	556	60
SLW05A-12	9~18	12	417	60
SLW05A-15	9~18	15	333	60
SLW05B-05	18~36	5	1000	50
SLW05B-09	18~36	9	556	60
SLW05B-12	18~36	12	417	60
SLW05B-15	18~36	15	333	60
SLW05C-05	36~72	5	1000	50
SLW05C-09	36~72	9	556	60
SLW05C-12	36~72	12	417	60
SLW05C-15	36~72	15	333	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DLW05A-05	9~18	± 5	± 500	50
DLW05A-12	9~18	± 12	± 208	60
DLW05A-15	9~18	± 15	± 167	60
DLW05B-05	18~36	± 5	± 500	50
DLW05B-12	18~36	± 12	± 208	60
DLW05B-15	18~36	± 15	± 167	60
DLW05C-05	36~72	± 5	± 500	50
DLW05C-12	36~72	± 12	± 208	60
DLW05C-15	36~72	± 15	± 167	60

8W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 1000VDC I/O isolation
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																							
Unit: mm(inch) 20.3 (0.80) 4.6 (0.18) 0.6+0.1/-0 (0.024) 3.8 (0.15) 31.8 (1.25) 12.2 (0.48) 17.8 (0.70) 2.54 (0.1) 5.08 (0.2) 15.2 (0.60) 11.0 9.0 16.0 23.0 22.0 2.0 3.0 16.0 23.0 2.0 3.0 BOTTOM VIEW	<table><tr><th rowspan="2">Pin No.</th><th colspan="2">Output</th></tr><tr><th>Single</th><th>Dual</th></tr><tr><td>2&3</td><td>-Vin</td><td>-Vin</td></tr><tr><td>9</td><td>NC</td><td>COM</td></tr><tr><td>11</td><td>NC</td><td>-Vout</td></tr><tr><td>14</td><td>+Vout</td><td>+Vout</td></tr><tr><td>16</td><td>-Vout</td><td>COM</td></tr><tr><td>22&23</td><td>+Vin</td><td>+Vin</td></tr></table>	Pin No.	Output		Single	Dual	2&3	-Vin	-Vin	9	NC	COM	11	NC	-Vout	14	+Vout	+Vout	16	-Vout	COM	22&23	+Vin	+Vin
Pin No.	Output																							
	Single	Dual																						
2&3	-Vin	-Vin																						
9	NC	COM																						
11	NC	-Vout																						
14	+Vout	+Vout																						
16	-Vout	COM																						
22&23	+Vin	+Vin																						

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@20~100% load
 Efficiency 82% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 110%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Isolation capacitance 250pF (max.)
 Working temperature -40~+71°C (refer to output derating curve)
 Storage temperature -40°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW08A-05	9~18	5	1600	50
SCW08A-12	9~18	12	670	60
SCW08A-15	9~18	15	533	60
SCW08B-05	18~36	5	1600	50
SCW08B-12	18~36	12	670	60
SCW08B-15	18~36	15	533	60
SCW08C-05	36~72	5	1600	50
SCW08C-12	36~72	12	670	60
SCW08C-15	36~72	15	533	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW08A-05	9~18	± 5	± 800	50
DCW08A-12	9~18	± 12	± 335	60
DCW08A-15	9~18	± 15	± 267	60
DCW08B-05	18~36	± 5	± 800	50
DCW08B-12	18~36	± 12	± 335	60
DCW08B-15	18~36	± 15	± 267	60
DCW08C-05	36~72	± 5	± 800	50
DCW08C-12	36~72	± 12	± 335	60
DCW08C-15	36~72	± 15	± 267	60

DC/DC Converter

10~12W Module Type



10W DC-DC Regulated Single and Dual Output



2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism

Unit: mm(inch)

Bottom View Dimensions:

- Overall Width: 50.8 (2.00)
- Overall Height: 25.4 (1.00)
- Pin 1 to Pin 2: 10.2 (5.1)
- Pin 2 to Pin 3: 10.1
- Pin 3 to Pin 4: 15.3
- Pin 4 to Pin 5: 20.3
- Pin 5 to Pin 6: 15.2
- Pin 6 to Pin 7: 2.5
- Pin 7 to Pin 8: 10.2
- Pin 8 to Pin 9: 10.2
- Pin 9 to Pin 10: 2.5
- Pin 10 to Pin 11: 11.27 (0.44)
- Pin 11 to Pin 12: 5.8

Pin Configuration

Pin No.	Output	
	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	COM
5	-Vout	-Vout

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.3\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 85% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25~+71°C (refer to output derating curve)
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE10A-05	9~18	5	2000	50
SKE10A-12	9~18	12	840	60
SKE10A-15	9~18	15	666	60
SKE10A-24	9~18	24	420	80
SKE10B-05	18~36	5	2000	50
SKE10B-12	18~36	12	840	60
SKE10B-15	18~36	15	666	60
SKE10B-24	18~36	24	420	80
SKE10C-05	36~72	5	2000	50
SKE10C-12	36~72	12	840	60
SKE10C-15	36~72	15	666	60
SKE10C-24	36~72	24	420	80

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE10A-05	9~18	± 5	± 1000	50
DKE10A-12	9~18	± 12	± 420	60
DKE10A-15	9~18	± 15	± 333	60
DKE10A-24	9~18	± 24	± 210	80
DKE10B-05	18~36	± 5	± 1000	50
DKE10B-12	18~36	± 12	± 420	60
DKE10B-15	18~36	± 15	± 333	60
DKE10B-24	18~36	± 24	± 210	80
DKE10C-05	36~72	± 5	± 1000	50
DKE10C-12	36~72	± 12	± 420	60
DKE10C-15	36~72	± 15	± 333	60
DKE10C-24	36~72	± 24	± 210	80

12W DC-DC Regulated Single and Dual Output



1.25"x 0.8"x 0.48"

- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- Modified models available:
output 2.5V / 3.3V
- 2 years warranty

Mechanism

Unit: mm(inch)

20.3 (0.80)

4.6 (0.18)

0.6+0.1/-0 (0.024)

3.8 (0.15)

Unit: mm(inch)

17.8 (0.70)

2.54 (0.1)

5.08 (0.2)

31.8 (1.25)

12.2 (0.48)

15.2 (0.60)

23

22

16

14

90

BOTTOM VIEW

Pin Configuration

Pin No.	Output	
	Single	Dual
1	R.C	R.C
2&3	-Vin	-Vin
9	NC	COM
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	COM
22&23	+Vin	+Vin

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@20~100% load
 Efficiency 85% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 110%~180%, auto-recovery
 I/O isolation voltage 1500VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -40~+71°C (refer to output derating curve)
 Storage temperature -40°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Five-sided shield metal case
 EMC Compliance to EN55022 class A,
 EN61000-4-2,3,4,5,6,8, FCC part15 class A

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SCW12A-05	9~18	5	2400	50
SCW12A-12	9~18	12	1000	60
SCW12A-15	9~18	15	800	60
SCW12B-05	18~36	5	2400	50
SCW12B-12	18~36	12	1000	60
SCW12B-15	18~36	15	800	60
SCW12C-05	36~72	5	2400	50
SCW12C-12	36~72	12	1000	60
SCW12C-15	36~72	15	800	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DCW12A-05	9~18	± 5	± 1200	50
DCW12A-12	9~18	± 12	± 500	60
DCW12A-15	9~18	± 15	± 400	60
DCW12B-05	18~36	± 5	± 1200	50
DCW12B-12	18~36	± 12	± 500	60
DCW12B-15	18~36	± 15	± 400	60
DCW12C-05	36~72	± 5	± 1200	50
DCW12C-12	36~72	± 12	± 500	60
DCW12C-15	36~72	± 15	± 400	60

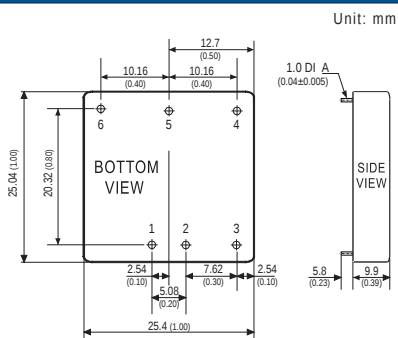
15W DC-DC Regulated Single Output



1"x 1"x 0.39"

- 1"x1" compact size
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 88%
- Built-in remote ON/OFF control
- Built-in EMI filter
- Trimming output ($\pm 10\%$)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	-Vin
3	R.C
4	-Vout
5	Trim
6	+Vout

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.) @10%~100% load
 Overload protection 110%~180%, auto-recovery
 Over voltage protection Clamp by TVS diode
 Efficiency 88% (typical)
 I/O isolation voltage 1500VDC(min.)
 I/O isolation resistance 100M Ω (min.) @500VDC
 Working temperature -40~+80°C(refer to output derating curve)
 Storage temperature -55°C to 100°C
 Case Material Six-sided shield metal case
 EMC Compliance to EN55022 class A,
 EN61000-4-2,3,4,5,6,8, FCC part15 classA

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKM15A-05	9~18	5	3.00	50
SKM15A-12	9~18	12	1.25	60
SKM15A-15	9~18	15	1.00	60
SKM15B-05	18~36	5	3.00	50
SKM15B-12	18~36	12	1.25	60
SKM15B-15	18~36	15	1.00	60
SKM15C-05	36~75	5	3.00	50
SKM15C-12	36~75	12	1.25	60
SKM15C-15	36~75	15	1.00	60

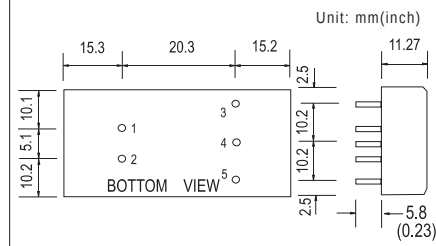
15W DC-DC Regulated Single and Dual Output



2"x 1"x 0.44"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation (option)
- Built-in EMI filter
- Protection: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output	
	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	No Pin	COM
5	-Vout	-Vout

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 82% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 110%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -40~+71°C (refer to output derating curve)
 Storage temperature -40°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKA15A-033	9~18	3.3	3000	50
SKA15A-05	9~18	5	3000	50
SKA15A-12	9~18	12	1250	60
SKA15A-15	9~18	15	1000	60
SKA15B-033	18~36	3.3	3000	50
SKA15B-05	18~36	5	3000	50
SKA15B-12	18~36	12	1250	60
SKA15B-15	18~36	15	1000	60
SKA15C-033	36~72	3.3	3000	50
SKA15C-05	36~72	5	3000	50
SKA15C-12	36~72	12	1250	60
SKA15C-15	36~72	15	1000	60

Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKA15A-05	9~18	± 5	± 1500	50
DKA15A-12	9~18	± 12	± 625	60
DKA15A-15	9~18	± 15	± 500	60
DKA15B-05	18~36	± 5	± 1500	50
DKA15B-12	18~36	± 12	± 625	60
DKA15B-15	18~36	± 15	± 500	60
DKA15C-05	36~72	± 5	± 1500	50
DKA15C-12	36~72	± 12	± 625	60
DKA15C-15	36~72	± 15	± 500	60



To Satisfy our customers is our goal —

- High Quality
- Low Cost
- Prompt Delivery
- Best Service

DC/DC Converter

15~30W Module Type



15W DC-DC Regulated Single and Dual Output



2" x 2" x 0.43"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																				
	<table border="1"> <thead> <tr> <th rowspan="2">Pin No.</th><th colspan="2">Output</th></tr> <tr> <th>Single</th><th>Dual</th></tr> </thead> <tbody> <tr> <td>1</td><td>+Vin</td><td>+Vin</td></tr> <tr> <td>2</td><td>-Vin</td><td>-Vin</td></tr> <tr> <td>3</td><td>+Vout</td><td>+Vout</td></tr> <tr> <td>4</td><td>No Pin</td><td>COM</td></tr> <tr> <td>5</td><td>-Vout</td><td>-Vout</td></tr> </tbody> </table>	Pin No.	Output		Single	Dual	1	+Vin	+Vin	2	-Vin	-Vin	3	+Vout	+Vout	4	No Pin	COM	5	-Vout	-Vout
Pin No.	Output																				
	Single	Dual																			
1	+Vin	+Vin																			
2	-Vin	-Vin																			
3	+Vout	+Vout																			
4	No Pin	COM																			
5	-Vout	-Vout																			

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.3\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 85% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection 160%~250%, auto-recovery
 I/O isolation voltage 1000VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -25~+71°C (refer to output derating curve)
 Storage temperature -25°C to +105°C
 Temp. Coefficient $\pm 0.03\%$ / °C (max.)
 Case material Six-sided shield metal case
 EMC Compliance to EN55022 class B,
 EN61000-4-2,3,4,5,6,8, FCC part15 class B

◆ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKE15A-05	9~18	5	3000	50
SKE15A-12	9~18	12	1250	60
SKE15A-15	9~18	15	1000	60
SKE15A-24	9~18	24	625	80
SKE15B-05	18~36	5	3000	50
SKE15B-12	18~36	12	1250	60
SKE15B-15	18~36	15	1000	60
SKE15B-24	18~36	24	625	80
SKE15C-05	36~72	5	3000	50
SKE15C-12	36~72	12	1250	60
SKE15C-15	36~72	15	1000	60
SKE15C-24	36~72	24	625	80

◆ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKE15A-05	9~18	± 5	± 1500	50
DKE15A-12	9~18	± 12	± 625	60
DKE15A-15	9~18	± 15	± 500	60
DKE15A-24	9~18	± 24	± 313	80
DKE15B-05	18~36	± 5	± 1500	50
DKE15B-12	18~36	± 12	± 625	60
DKE15B-15	18~36	± 15	± 500	60
DKE15B-24	18~36	± 24	± 313	80
DKE15C-05	36~72	± 5	± 1500	50
DKE15C-12	36~72	± 12	± 625	60
DKE15C-15	36~72	± 15	± 500	60
DKE15C-24	36~72	± 24	± 313	80

20~30W DC-DC Regulated Single Output



SKA20
2" x 1" x 0.44"

SKM30
2" x 1" x 0.44"

- 2" x 1" compact size
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Trimming output ($\pm 10\%$)
- Protections:
Short circuit / Overload /
Input and output over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																							
	<table border="1"> <thead> <tr> <th rowspan="2">Pin No.</th><th colspan="2">Output</th></tr> <tr> <th>SKA20</th><th>SKM30</th></tr> </thead> <tbody> <tr> <td>1</td><td>+Vin</td><td>+Vin</td></tr> <tr> <td>2</td><td>-Vin</td><td>-Vin</td></tr> <tr> <td>3</td><td>+Vout</td><td>R.C.</td></tr> <tr> <td>4</td><td>Trim</td><td>+Vout</td></tr> <tr> <td>5</td><td>-Vout</td><td>-Vout</td></tr> <tr> <td>6</td><td>R.C.</td><td>Trim</td></tr> </tbody> </table>	Pin No.	Output		SKA20	SKM30	1	+Vin	+Vin	2	-Vin	-Vin	3	+Vout	R.C.	4	Trim	+Vout	5	-Vout	-Vout	6	R.C.	Trim
Pin No.	Output																							
	SKA20	SKM30																						
1	+Vin	+Vin																						
2	-Vin	-Vin																						
3	+Vout	R.C.																						
4	Trim	+Vout																						
5	-Vout	-Vout																						
6	R.C.	Trim																						

Voltage set point accuracy ... $\pm 2\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)@10~100% load
 Efficiency 89.5% (typical) for SKA20
 90% (typical) for SKM30
 Short circuit protection Continuous, auto-recovery
 Overload protection 110%~180%, auto-recovery
 I/O isolation voltage 1500VDC (min.)
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature -40~+85°C (refer to output derating curve) for SKA20
 -40~+75°C (refer to output derating curve) for SKM30
 EMC Compliance to EN55022 class A,
 EN61000-4-2,3,4,5,6,8, FCC part15 class A

◆ SKA20 Series

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
SKA20A-05	9~18	5	4000	50
SKA20A-12	9~18	12	1666	60
SKA20A-15	9~18	15	1333	60
SKA20B-05	18~36	5	4000	50
SKA20B-12	18~36	12	1666	60
SKA20B-15	18~36	15	1333	60
SKA20C-05	36~75	5	4000	50
SKA20C-12	36~75	12	1666	60
SKA20C-15	36~75	15	1333	60

◆ SKM30 Series

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKM30A-05	9~18	5	6	90
SKM30A-12	9~18	12	2.5	120
SKM30A-15	9~18	15	2	120
SKM30B-05	18~36	5	6	90
SKM30B-12	18~36	12	2.5	120
SKM30B-15	18~36	15	2	120
SKM30C-05	36~75	5	6	90
SKM30C-12	36~75	12	2.5	120
SKM30C-15	36~75	15	2	120

30W DC-DC Regulated Single Output



2"x 2"x 0.63"

- 2:1 wide input range
- 1000VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Trimming output ($\pm 10\%$)
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Compact size, high efficiency
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism	Pin Configuration																		
Unit: mm	<table border="1"> <thead> <tr> <th>Pin No.</th><th>Output</th></tr> </thead> <tbody> <tr><td>1</td><td>+Vin</td></tr> <tr><td>2</td><td>-Vin</td></tr> <tr><td>3</td><td>No Pin</td></tr> <tr><td>4</td><td>Control ON/OFF</td></tr> <tr><td>5</td><td>No Pin</td></tr> <tr><td>6</td><td>+Vout</td></tr> <tr><td>7</td><td>-Vout</td></tr> <tr><td>8</td><td>Trim</td></tr> </tbody> </table>	Pin No.	Output	1	+Vin	2	-Vin	3	No Pin	4	Control ON/OFF	5	No Pin	6	+Vout	7	-Vout	8	Trim
Pin No.	Output																		
1	+Vin																		
2	-Vin																		
3	No Pin																		
4	Control ON/OFF																		
5	No Pin																		
6	+Vout																		
7	-Vout																		
8	Trim																		

Voltage set point accuracy ... $\pm 2\%$ (max.) ($\pm 3\%$ for 3.3VDC models)

Line regulation $\pm 1\%$ (max.)

Load regulation $\pm 1\%$ (max.) @10~100% load

Overload protection Over 105% power limiting, auto-recovery

Over voltage protection 115%~150% rated output voltage

Efficiency (typical) 80% for 12V input
83% for 24V input
85% for 48V input

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100M Ω (min.) @500VDC

Working temperature -25~+85°C (refer to output derating curve)

Storage temperature -25°C to +85°C

Case Material Six-sided shield metal case

EMC Compliance to EN55022 class B,
EN61000-4-2,3,4,6,8

Packing 0.1kg ; 150pcs / 15.8kg / 0.97CUFT

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SDM30-12S3	9.2~18	3.3	5.0	75
SDM30-12S5	9.2~18	5	5.0	75
SDM30-12S12	9.2~18	12	2.1	100
SDM30-12S15	9.2~18	15	1.7	100
SDM30-24S3	18~36	3.3	5.0	75
SDM30-24S5	18~36	5	5.0	75
SDM30-24S12	18~36	12	2.5	100
SDM30-24S15	18~36	15	2.0	100
SDM30-48S3	36~72	3.3	5.0	75
SDM30-48S5	36~72	5	5.0	75
SDM30-48S12	36~72	12	2.5	100
SDM30-48S15	36~72	15	2.0	100

25~30W DC-DC Regulated Dual and Triple Output



2"x 2"x 0.82"

- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Trimming output ($\pm 10\%$) for dual output
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism

Unit: mm (inch)

The drawing shows two views of the module:

- BOTTOM VIEW:** A rectangular footprint with a width of 30.48 (1.20) and a height of 45.72 (1.80). Pin locations are marked with circles and numbers: 5 and 6 are on the top edge, 4, 3, 2, and 1 are on the bottom edge. A dimension of 12.7 (0.50) is shown from the bottom edge to the center of pins 4 and 3.
- SIDE VIEW:** A rectangular profile with a width of 21 (0.82) and a height of 50.8 (2.00). It shows a mounting tab on the left with a width of 1.0 ϕ + 0.2/-0.1 and a base width of 5.8 (0.23). A dimension of 2.5 (0.10) is shown from the bottom edge to the center of the mounting tab.

Overall dimensions for the bottom view are 50.8 (2.00) in width and 45.72 (1.80) in height. A dimension of 22.9 (0.90) is shown from the left edge to the center of pins 4 and 3, and 15.24 (0.60) is shown from the center of pins 4 and 3 to the right edge.

Pin Configuration

Pin No.	Output	
	Dual	Triple
1	R.C.	R.C.
2	No Pin	No Pin
3	-Vin	-Vin
4	+Vin	+Vin
5	+Vout	+Vout
6	COM	+5V
7	-Vout	COM
8	Trim	-Vout

Voltage set point accuracy $\pm 2\%$ (max.)

Line regulation $\pm 0.5\%$ (max.) for dual output;
 $\pm 1\%$ (max.) for triple output

Load regulation $\pm 0.5\%$ (10~100% load)(Dual)
 $\pm 5\%$ (20~100% load)(Triple)

Efficiency 83% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 110%~250%, auto-recovery

I/O isolation voltage 1000VDC (min.)

I/O isolation resistance 100M Ω (min.) @ 500VDC

Working temperature -40~+85°C (refer to output derating curve)

Storage temperature -40°C to +105°C

Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material Six-sided shield metal case

EMC Compliance to EN55022 class B,
EN61000-4-2,3,4,5,6,8, FCC part15 class B

✦ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
DKA30A-05	9~18	± 5	± 2500	100
DKA30A-12	9~18	± 12	± 1250	100
DKA30A-15	9~18	15	± 1000	100
DKA30B-05	18~36	± 5	± 2500	100
DKA30B-12	18~36	± 12	± 1250	100
DKA30B-15	18~36	± 15	± 1000	100
DKA30C-05	36~72	± 5	± 2500	100
DKA30C-12	36~72	± 12	± 1250	100
DKA30C-15	36~72	± 15	± 1000	100

✦ Triple Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
TKA30A-B	9~18	+5 / ± 12	3500 / ± 310	100
TKA30A-C	9~18	+5 / ± 15	3500 / ± 250	100
TKA30B-B	18~36	+5 / ± 12	3500 / ± 310	100
TKA30B-C	18~36	+5 / ± 15	3500 / ± 250	100
TKA30C-B	36~72	+5 / ± 12	3500 / ± 310	100
TKA30C-C	36~72	+5 / ± 15	3500 / ± 250	100

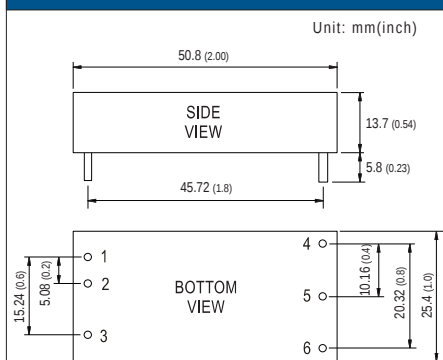
50W DC-DC Regulated Single Output



2"x 1"x 0.54"

- 2"x1" compact size
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 92%
- Built-in remote ON/OFF control
- Built-in EMI filter
- Trimming output ($\pm 10\%$)
- Protections:
 - Short circuit / Overload / Input and output over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	-Vin
3	R.C.
4	+Vout
5	-Vout
6	Trim

Voltage set point accuracy $\pm 2\%$ (max.)

Line regulation $\pm 0.2\%$ (max.)

Load regulation $\pm 0.5\%$ (max.) @ 10~100% load

Efficiency 92% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 110%~180%, auto-recovery

I/O isolation voltage 1500VDC (min.)

I/O isolation resistance 100M Ω (min.)@ 500VDC

Working temperature -40~+75°C (refer to output derating curve)

Storage temperature -55°C to +125°C

Temp. Coefficient $\pm 0.03\%$ / °C (max.)

Case material Six-sided shield metal case

EMC Compliance to EN55022 class A, EN61000-4-2,3,4,5,6,8, FCC part15 class A

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKM50B-05	18~36	5	10	60
SKM50B-12	18~36	12	4.17	80
SKM50B-15	18~36	15	3.33	100
SKM50C-05	36~75	5	10	60
SKM50C-12	36~75	12	4.17	80
SKM50C-15	36~75	15	3.33	100

40~60W DC-DC Regulated Single Output

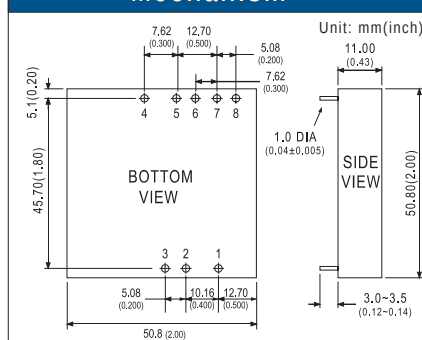


SKA40
2"x 2"x 0.43"

SKA60
2"x 2"x 0.43"

- 2"x2" compact size
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 93%
- Built-in remote ON/OFF control
- Built-in remote sense
- Built-in EMI filter
- Trimming output ($\pm 10\%$)
- Protections:
 - Short circuit / Overload / Input and output over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Output 3.3V/9V models available for SKA40
- Output 3.3V available for SKA60
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	R.C.
2	-Vin
3	+Vin
4	-R.S
5	+R.S
6	+Vout
7	-Vout
8	Trim

Voltage set point accuracy ... $\pm 2\%$ (max.)

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.) @ 10~100% load

Overload protection 110%~180%, auto-recovery

Over voltage protection Clamp by TVS diode

Efficiency (typical)..... 92% for SKA40; 93% for SKA60

I/O isolation voltage 1500VDC(min.)

I/O isolation resistance 100M Ω (min.) @500VDC

Working temperature -40~+80°C(refer to output derating curve) for SKA40
-40~+70°C(refer to output derating curve) for SKA60

Storage temperature -55°C to +105°C

Case Material Six-sided shield metal case

EMC Compliance to EN55022 class A, EN61000-4-2,3,4,5,6,8, FCC part15 class A

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKA40A-05	9~18	5	7.00	60
SKA40A-12	9~18	12	3.33	80
SKA40A-15	9~18	15	2.67	100
SKA40B-05	18~36	5	7.00	60
SKA40B-12	18~36	12	3.33	80
SKA40B-15	18~36	15	2.67	100
SKA40C-05	36~75	5	7.00	60
SKA40C-12	36~75	12	3.33	80
SKA40C-15	36~75	15	2.67	100

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
SKA60A-05	9~18	5	12	60
SKA60A-12	9~18	12	5	80
SKA60A-15	9~18	15	4	100
SKA60B-05	18~36	5	12	60
SKA60B-12	18~36	12	5	80
SKA60B-15	18~36	15	4	100
SKA60C-05	36~75	5	12	60
SKA60C-12	36~75	12	5	80
SKA60C-15	36~75	15	4	100



Customer Satisfaction —

Today's effort, tomorrow's reward. Continuously improve CQTS to satisfy customer is our goal.

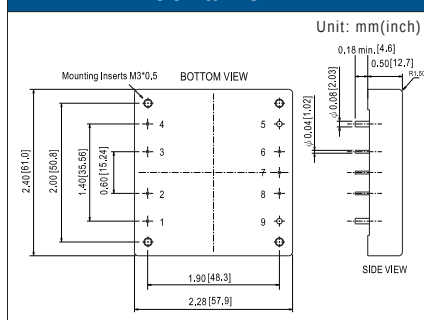
75W DC-DC Half-Brick Regulated Single Output



2.28"x 2.4"x 0.5"

- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 89%
- Built-in remote ON/OFF control
- Built-in remote sense
- Trimming output ($\pm 10\%$)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Five-sided shield metal case
- Output 2.5V / 3.3V / 15V available
- Optional heatsink available
- 3 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	R.C.
3	Case
4	-Vin
5	-Vout
6	-R.S.
7	Trim
8	+R.S.
9	+Vout

Voltage set point accuracy ... $\pm 1\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.2\%$ (max.)
 Over current protection 110%~150%, auto-recovery
 Over voltage protection 115%~140% rated output voltage, clamp by TVS diode
 Over temperature protection $100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ of case temperature
 Efficiency 89% (typical)
 I/O isolation voltage 1500VDC(min.)
 I/O isolation resistance $100\text{M}\Omega$ (min.) @500VDC
 Working temperature $-40 \sim +100^{\circ}\text{C}$ of case temp.(refer to output derating curve)
 Storage temperature $-55 \sim +105^{\circ}\text{C}$
 Safety standards UL60950-1 approved
 Case Material Five-sided shield metal case
 EMC Compliance to EN55022 class A with external components(refer to "EMC suggestion circuit"), EN61000-4-2,3,4,5,6,8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB75-12S05	9~18	5	15	75
MHB75-12S12	9~18	12	6.25	100
MHB75-12S24	9~18	24	3.13	240
MHB75-24S05	18~36	5	15	75
MHB75-24S12	18~36	12	6.25	100
MHB75-24S24	18~36	24	3.13	240
MHB75-48S05	36~75	5	15	75
MHB75-48S12	36~75	12	6.25	100
MHB75-48S24	36~75	24	3.13	240

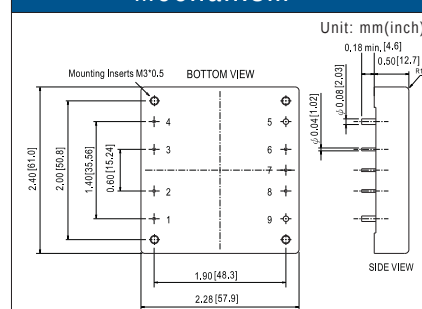
100W DC-DC Half-Brick Regulated Single Output



2.28"x 2.4"x 0.5"

- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 89%
- Built-in remote ON/OFF control
- Built-in remote sense
- Trimming output ($\pm 10\%$)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Five-sided shield metal case
- Output 2.5V / 3.3V / 15V available
- Optional heatsink available
- 3 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	R.C.
3	Case
4	-Vin
5	-Vout
6	-R.S.
7	Trim
8	+R.S.
9	+Vout

Voltage set point accuracy ... $\pm 1\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.2\%$ (max.)
 Over current protection 110%~140%, auto-recovery
 Over voltage protection 115%~140% rated output voltage, clamp by TVS diode
 Over temperature protection $100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ of case temperature
 Efficiency 89% (typical)
 I/O isolation voltage 1500VDC(min.)
 I/O isolation resistance $100\text{M}\Omega$ (min.) @500VDC
 Working temperature $-40 \sim +100^{\circ}\text{C}$ of case temp.(refer to output derating curve)
 Storage temperature $-55 \sim +105^{\circ}\text{C}$
 Safety standards UL60950-1 approved
 Case Material Five-sided shield metal case
 EMC Compliance to EN55022 class A with external components(refer to "EMC suggestion circuit"), EN61000-4-2,3,4,5,6,8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB100-24S05	18~36	5	20	100
MHB100-24S12	18~36	12	8.3	150
MHB100-24S24	18~36	24	4.17	240
MHB100-48S05	36~75	5	20	100
MHB100-48S12	36~75	12	8.3	150
MHB100-48S24	36~75	24	4.17	240

Heat Sink for MHB Series

Order No.	M-C308 (Vertical Fins)	M-C091 (Horizontal Fins)	M-C092 (Horizontal Fins)
Mechanical			

Note: Power module and heat sink should be ordered separately; The heat sinks can be used with MHB75/100/150 series.

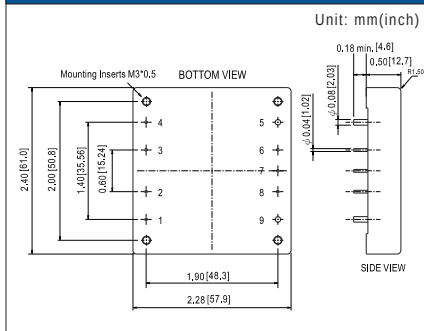
150W DC-DC Half-Brick Regulated Single Output



2.28"x 2.4"x 0.5"

- Half-brick size (2.28"x 2.4"x 0.5") with industry standard pin out
- 2:1 wide input range
- 1500VDC I/O isolation
- High efficiency up to 89%
- Built-in remote ON/OFF control
- Built-in remote sense
- Trimming output ($\pm 10\%$)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Five-sided shield metal case
- Output 2.5V / 3.3V / 15V available
- Optional heatsink available
- 3 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Vin
2	R.C.
3	Case
4	-Vin
5	-Vout
6	-R.S.
7	Trim
8	+R.S.
9	+Vout

Voltage set point accuracy ... $\pm 1\%$ (max.)
 Line regulation $\pm 0.2\%$ (max.)
 Load regulation $\pm 0.2\%$ (max.)
 Over current protection 110%~150%, auto-recovery
 Over voltage protection 115%~140% rated output voltage, clamp by TVS diode
 Over temperature protection $100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ of case temperature
 Efficiency 89% (typical)
 I/O isolation voltage 1500VDC(min.)
 I/O isolation resistance 100M Ω (min.) @500VDC
 Working temperature $-40 \sim +100^{\circ}\text{C}$ of case temp.(refer to output derating curve)
 Storage temperature $-55 \sim +105^{\circ}\text{C}$
 Safety standards UL60950-1 approved
 Case Material Five-sided shield metal case
 EMC Compliance to EN55022 class A with external components(refer to "EMC suggestion circuit"), EN61000-4-2,3,4,5,6,8

Model No.	Input (VDC)	Output (VDC)	Current (A)	R&N (mVp-p)
MHB150-48S05	36~75	5	30	100
MHB150-48S12	36~75	12	12.5	150
MHB150-48S24	36~75	24	6.25	240

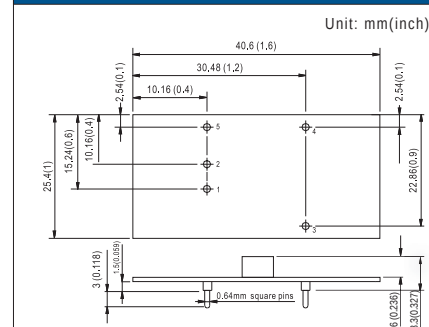
5W DC-DC Regulated Single Output



1.6"x 1"x 0.327"

- 4:1 wide input range
- 1000VDC I/O isolation
- Built-in EMI filter
- Protections: Short circuit / Overload / Over voltage
- Built-in remote ON/OFF control
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

Mechanism



Pin Configuration

Pin No.	Output
1	+Input
2	-Input(GND)
3	+Vout
4	-Vout
5	Control

Voltage set point accuracy ... $\pm 2.0\%$ (max.)
 Line regulation $\pm 1.0\%$ (max.)
 Load regulation $\pm 1 \sim \pm 2\%$ (max.)@10~100% load
 Efficiency 85% (typical)
 Short circuit protection Continuous, auto-recovery
 Overload protection Over 105% power limiting, auto-recovery
 I/O isolation voltage 1000VDC
 I/O isolation resistance 100M Ω (min.)@ 500VDC
 Working temperature $-25 \sim +70^{\circ}\text{C}$ (refer to output derating curve)
 Storage temperature $-40 \sim +85^{\circ}\text{C}$
 Temp. Coefficient $\pm 0.03\%$ / $^{\circ}\text{C}$
 Safety standards IEC60950-1 CB approved by TUV
 EMC standards EN55022 class B, EN61000-4-2,3,4,5,6,8
 Packing 0.007kg ; 700pcs / 5.9kg / 0.97CUFT

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD05-12S3	9.2~36	3.3	1200	75
NSD05-12S5	9.2~36	5	1000	75
NSD05-12S12	9.2~36	12	420	75
NSD05-12S15	9.2~36	15	330	75
NSD05-48S3	18~72	3.3	1200	75
NSD05-48S5	18~72	5	1000	75
NSD05-48S12	18~72	12	420	75
NSD05-48S15	18~72	15	330	75



We provide specification, drawing, test report and more information, please visit our website —

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10W DC-DC Regulated Single and Dual Output



- 4:1 wide input range
- 1000VDC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter
- Built-in remote ON/OFF control
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

2"x 1"x 0.394"

15W DC-DC Regulated Single and Dual Output



- 4:1 wide input range
- 1500VDC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter
- Output voltage trimming function
- Built-in remote ON/OFF control
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

2"x 1.5"x 0.387"

Mechanism

Unit: mm(inch)

The diagram shows a top-down view of a rectangular PCB with dimensions 50.8 [2] mm by 25.4 [1] mm. Key dimensions include:

- Top edge: 10.0 [0.394] mm (total width), 3.81 [0.15] mm (left offset), 1.02 [0.04] mm (center offset), 1.78 [0.07] mm (right offset).
- Bottom edge: 22.86 [0.9] mm (total width), 2.54 [0.1] mm (right offset).
- Left edge: 15.24 [0.6] mm (total height), 10.16 [0.4] mm (top offset), 2.54 [0.1] mm (bottom offset).
- Internal spacing: 15.24 [0.6] mm (left), 35.56 [1.4] mm (center), 50.8 [2] mm (total).
- Component footprints: 6 pins (1-6), 2 electrolytic capacitors, 2 resistors, and 2 integrated circuits.

Pin Configuration

Pin No.	Output	
	Single	Dual
1	+Input	+Input
2	-Input (GND)	-Input (GND)
3	+Out	+Out
4	NC	Common
5	-Out	-Out
6	Control	Control

Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 1\%$ @10~100% load
 Load regulation $\pm 1 \sim \pm 3\%$ @10~100% load
 Efficiency 80% (typical)
 Short circuit protection Continuous, auto-recovery
 Over voltage protection Clamp@115~150%
 Shutdown idle current 20mA
 I/O isolation voltage 1000VDC
 I/O isolation resistance 100M Ω (min.) @500VDC
 Working temperature -25~+70°C
 Storage temperature -40~+85°C
 Temp. coefficient $\pm 0.03\%$ / °C
 Safety standards UL60950-1 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8
 Packing 0.02kg ; 300pcs / 7.0kg / 0.97CUFT

◆ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD10-12S3	9.8~36	3.3	2500	75
NSD10-12S5	9.8~36	5	2000	75
NSD10-12S9	9.8~36	9	1100	75
NSD10-12S12	9.8~36	12	830	75
NSD10-12S15	9.8~36	15	670	75
NSD10-48S3	22~72	3.3	2500	75
NSD10-48S5	22~72	5	2000	75
NSD10-48S9	22~72	9	1100	75
NSD10-48S12	22~72	12	830	75
NSD10-48S15	22~72	15	670	75

◆ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD10-12D5	9.8~36	± 5	$\pm 50 \sim 1000$	75
NSD10-12D12	9.8~36	± 12	$\pm 20 \sim 420$	75
NSD10-12D15	9.8~36	± 15	$\pm 16 \sim 330$	75
NSD10-48D5	22~72	± 5	$\pm 50 \sim 1000$	75
NSD10-48D12	22~72	± 12	$\pm 20 \sim 420$	75
NSD10-48D15	22~72	± 15	$\pm 16 \sim 330$	75

Mechanism

Unit: mm(inch)

Diagram illustrating the mechanical dimensions and component layout of the 15W converter PCB. The dimensions are provided in mm (inch).

Key dimensions and features:

- Overall width: 50.8 [2]
- Overall height: 38.1 [1.5]
- Top section width: 50.8 [2]
- Top section height: 3.54 [0.23]
- Top section width (left): 13.32 [0.525]
- Top section width (right): 9.82 [0.387]
- Top section width (middle): 20.8 [0.425]
- Top section width (right): 1.8 [0.071]
- Top section width (right): 11.0 [0.39]
- Pin 1 (+VIN) location: 10.16 [0.4]
- Pin 2 (-VIN) location: 10.16 [0.4]
- Pin 4 (CONTROL) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
- Pin 5 (No Pin) location: 10.16 [0.4]
- Pin 6 (+VOUT) location: 10.16 [0.4]
- Pin 7 (-VOUT) location: 10.16 [0.4]
- Pin 8 (TRIM) location: 10.16 [0.4]
- Pin 3 (No Pin) location: 10.16 [0.4]
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Voltage set point accuracy $\pm 2\%$ (max.)
 Line regulation $\pm 1\%$ @10~100% load
 Load regulation $\pm 1 \sim \pm 3\%$ @10~100% load
 Efficiency 85% (typical)
 Short circuit protection Continuous, auto-recovery
 Over voltage protection Clamp@115~150%
 Shutdown idle current 20mA
 I/O isolation voltage 1500VDC
 I/O isolation resistance 100M Ω (min.) @500VDC
 Working temperature -25~+70°C
 Storage temperature -40~+85°C
 Temp. coefficient $\pm 0.03\%$ / °C
 Safety standards UL60950-1 approved
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8
 Packing 0.03kg ; 180pcs / 6.4kg / 0.97CUFT

◆ Single Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD15-12S3	9.4~36	3.3	3750	100
NSD15-12S5	9.4~36	5	3000	75
NSD15-12S12	9.4~36	12	1250	75
NSD15-12S15	9.4~36	15	1000	75
NSD15-48S3	18~72	3.3	3750	100
NSD15-48S5	18~72	5	3000	75
NSD15-48S12	18~72	12	1250	75
NSD15-48S15	18~72	15	1000	75

◆ Dual Output

Model No.	Input (VDC)	Output (VDC)	Current (mA)	R&N (mVp-p)
NSD15-12D5	9.4~36	± 5	$\pm 70 \sim 1500$	100
NSD15-12D12	9.4~36	± 12	$\pm 30 \sim 620$	100
NSD15-12D15	9.4~36	± 15	$\pm 20 \sim 500$	100
NSD15-48D5	18~72	± 5	$\pm 70 \sim 1500$	100
NSD15-48D12	18~72	± 12	$\pm 30 \sim 620$	100
NSD15-48D15	18~72	± 15	$\pm 20 \sim 500$	100

DC/DC Converter 12.5~60W On Board Type / 5~15W PCB Type



12.5~60W Single Output Non-isolated DC-DC Converter

- Non-isolated, fix-frequency at 250kHz
- 3:1 wide input range for 5~15V output
- ±2% output voltage accuracy
- High efficiency up to 96%**
- Built-in remote ON/OFF control
- Compact size
- Cooling by free air convection
- Economical open frame design**
- Protections: Short circuit / Overload / Over voltage
- 2 years warranty



◆ NID30 Series

Mechanism	Pin Configuration												
Unit: mm(inch) 10.7(0.421)max. 8(0.315) 13(0.512) 50.8(2) 4.5(0.18) 1 2 3 4 5 6 7 8 9 10 11 10.2(0.402) 0.64(0.025) 25.4(1) 1.3(0.051) 2.54(0.1) 4(0.16) SIDE VIEW	<table> <tr> <th>Pin No.</th><th>Output</th></tr> <tr> <td>1, 2, 3, 4</td><td>+Vout</td></tr> <tr> <td>5, 6</td><td>COM</td></tr> <tr> <td>7, 8</td><td>+Vin</td></tr> <tr> <td>9, 10</td><td>N.C.</td></tr> <tr> <td>11</td><td>R.C.</td></tr> </table>	Pin No.	Output	1, 2, 3, 4	+Vout	5, 6	COM	7, 8	+Vin	9, 10	N.C.	11	R.C.
Pin No.	Output												
1, 2, 3, 4	+Vout												
5, 6	COM												
7, 8	+Vin												
9, 10	N.C.												
11	R.C.												

◆ NID60 Series

Mechanism	Pin Configuration												
Unit: mm(inch) 10.7(0.421)max. 8(0.315) 26(1.024) 50.8(2.00) 4.5(0.18) 1 2 3 4 5 6 7 8 9 10 11 10.2(0.402) 0.64(0.025) 25.4(1.00) 1.3(0.051) 2.54(0.100) 4(0.16) SIDE VIEW	<table> <tr> <th>Pin No.</th><th>Output</th></tr> <tr> <td>1, 2, 3, 4</td><td>+Vout</td></tr> <tr> <td>5, 6</td><td>COM</td></tr> <tr> <td>7, 8</td><td>+Vin</td></tr> <tr> <td>9, 10</td><td>N.C.</td></tr> <tr> <td>11</td><td>R.C.</td></tr> </table>	Pin No.	Output	1, 2, 3, 4	+Vout	5, 6	COM	7, 8	+Vin	9, 10	N.C.	11	R.C.
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1, 2, 3, 4	+Vout												
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7, 8	+Vin												
9, 10	N.C.												
11	R.C.												

Voltage set point accuracy ±2% (max.)

Line regulation ±0.5%

Load regulation ±0.5% @ 10~100% load

Efficiency 96% (typical)

Short circuit protection Continuous, auto-recovery

Overload protection 120%~300%, auto-recovery

Over voltage protection Clamp by TVS Diode

Working temperature -25~+65°C (refer to derating curve)

Storage temperature -25~+105°C

Temp. coefficient ±0.03% / °C

◆ NID30 Series

Model No.	Input	Output	R&N	Effi
NID30S24-05	20~53V	5V, 0~2.50A	100mV	91%
NID30S24-12	20~53V	12V, 0~2.50A	120mV	95%
NID30S24-15	20~53V	15V, 0~2.00A	150mV	96%
NID30S48-24	30~53V	24V, 0~1.25A	200mV	93%

◆ NID60 Series

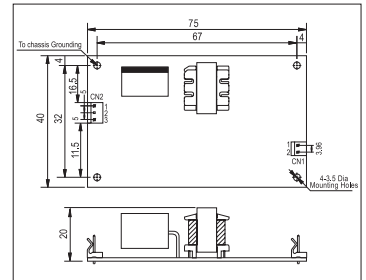
Model No.	Input	Output	R&N	Effi
NID60S24-05	20~53V	5V, 0~4.0A	100mV	90%
NID60S24-12	20~53V	12V, 0~4.0A	120mV	95%
NID60S24-15	20~53V	15V, 0~4.0A	150mV	96%
NID60S48-24	30~53V	24V, 0~2.5A	200mV	95%

5W Single Output DC-DC Converter

- 2:1 wide input range
- 2000VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



75x 40x 20 mm



Line and load regulation ... ±1.0% (max.)

Overload protection >105% fold back current limiting, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

Working temperature -10~+60°C (refer to output derating curve)

Safety standards Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Connection 3P, 2P / 3.96mm pitch, Molex 5285-03, 5273-02

Packing 0.05kg ; 120pcs / 6.25kg / 1.0CUFT

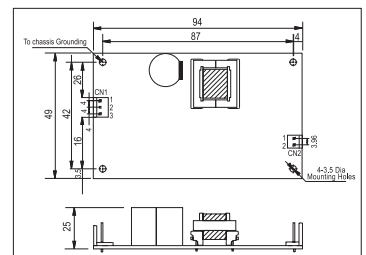
Model No.	Input	Output	R&N	Effi.
PSD-05-5	36~72V	5V, 0~1.0A	50mV	75%
PSD-05-12	36~72V	12V, 0~0.45A	100mV	78%
PSD-05-24	36~72V	24V, 0~0.22A	150mV	78%

15W Single Output DC-DC Converter

- 2:1 wide input range
- 2000VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Polarity
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty



94x 49x 25 mm



Line and load regulation ±1.0% (max.)

Overload protection 105%~150% hiccup mode, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100MΩ(min.) @500VDC

Working temperature -10~+60°C (refer to output derating curve)

Safety standards Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Connection 3P, 2P / 3.96mm pitch, JST B3P/B2P-VH

Packing 0.081kg ; 120pcs / 10.72kg

Model No.	Input	Output	R&N	Effi.
PSD-15A-5	9.2~18V	5V, 0~3.0A	50mV	74%
PSD-15A-12	9.2~18V	12V, 0~1.25A	100mV	67%
PSD-15A-24	9.2~18V	24V, 0~0.6A	100mV	72%
PSD-15B-5	18~36V	5V, 0~3.0A	50mV	78%
PSD-15B-12	18~36V	12V, 0~1.25A	100mV	78%
PSD-15B-24	18~36V	24V, 0~0.6A	100mV	78%
PSD-15C-5	36~72V	5V, 0~3.0A	50mV	78%
PSD-15C-12	36~72V	12V, 0~1.25A	100mV	78%
PSD-15C-24	36~72V	24V, 0~0.6A	100mV	79%

30W Single Output DC-DC Converter



101.6x 50.8x 30 mm

- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Reverse polarity
- 1500VAC I/O isolation
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~13.5V, 24V: 22~26V

Line and load regulation .. $\pm 1\%$ (max.)

Overload protection 105%~150% hiccup mode, auto-recovery

Over voltage protection ... 115%~150% rated output voltage

Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature -20~+60°C (refer to output derating curve)

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024

Connection 3P, 4P / 3.96mm pitch, JST B3P/B4P-VH-B

Model No.	Input	Output	R&N	Effi.
PSD-30A-05	9~18V	5V, 0~5.0A	100mV	77%
PSD-30A-12	9~18V	12V, 0~2.5A	120mV	77%
PSD-30A-24	9~18V	24V, 0~1.25A	150mV	78%
PSD-30B-05	18~36V	5V, 0~5.0A	100mV	79%
PSD-30B-12	18~36V	12V, 0~2.5A	120mV	80%
PSD-30B-24	18~36V	24V, 0~1.25A	150mV	83%
PSD-30C-05	36~72V	5V, 0~5.0A	100mV	80%
PSD-30C-12	36~72V	12V, 0~2.5A	120mV	82%
PSD-30C-24	36~72V	24V, 0~1.25A	150mV	83%

45W Single Output DC-DC Converter



127x 76x 30 mm

- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Reverse polarity
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Fixed switching frequency at 96kHz
- Low cost
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 10.8~13.2V,

24V: 21.6~26.4V

Line and load regulation $\pm 1\%$ (max.)

Overload protection 105%~160% shut down, re-power on to recover

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature -10~+60°C (refer to output derating curve)

Safety standards EN60950-1 CB approved by TUV

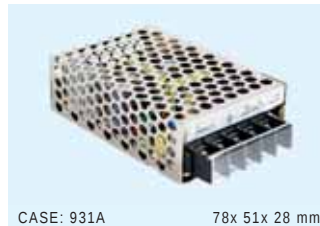
EMC standards EN55022 class B, EN61000-4-2,3,4,6,8, EN55024

Connection 2P, 6P / 3.96mm pitch, Molex 5277-02, 5273-06

Packing 0.19kg ; 72pcs / 15.6kg / 1.35CUFT

Model No.	Input	Output	R&N	Effi.
PSD-45A-05	9.2~18V	5V, 0~6.0A	100mV	74%
PSD-45A-12	9.2~18V	12V, 0~2.5A	120mV	78%
PSD-45A-24	9.2~18V	24V, 0~1.25A	150mV	79%
PSD-45B-05	18~36V	5V, 0~9.0A	100mV	77%
PSD-45B-12	18~36V	12V, 0~3.75A	120mV	82%
PSD-45B-24	18~36V	24V, 0~1.875A	150mV	85%
PSD-45C-05	37~72V	5V, 0~9.0A	100mV	80%
PSD-45C-12	37~72V	12V, 0~3.75A	120mV	83%
PSD-45C-24	37~72V	24V, 0~1.875A	150mV	86%

15W Single Output DC-DC Converter



CASE: 931A

78x 51x 28 mm

- 2:1 wide input range
- 2000VAC I/O isolation
- Cooling by free air convection
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.75~5.5V, 12V: 10.8~13.2V,

24V: 21.6~26.4V

Line and load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~160% hiccup mode, auto-recovery

Over voltage protection 115%~135% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Working temperature -10~+60°C (refer to output derating curve)

Safety standard Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 0.18kg ; 60pcs / 11.8kg

Model No.	Input	Output	R&N	Effi.
SD-15A-5	9.2~18V	5V, 0~3.0A	100mV	68%
SD-15A-12	9.2~18V	12V, 0~1.25A	120mV	72%
SD-15A-24	9.2~18V	24V, 0~0.625A	150mV	70%
SD-15B-5	18~36V	5V, 0~3.0A	100mV	76%
SD-15B-12	18~36V	12V, 0~1.25A	120mV	76%
SD-15B-24	18~36V	24V, 0~0.625A	150mV	77%
SD-15C-5	36~72V	5V, 0~3.0A	100mV	75%
SD-15C-12	36~72V	12V, 0~1.25A	120mV	79%
SD-15C-24	36~72V	24V, 0~0.625A	150mV	78%

25W Single Output DC-DC Converter



CASE: 905

99x 97x 36 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V

Line and load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~150% hiccup mode, auto-recovery

Over voltage protection 115%~165% rated output voltage

Withstand voltage I/P-O/P: 2kVAC, I/P-FG: 1.5kVAC, 1 minute

Isolation resistance 100M Ω (min.) @500VDC

Working temperature -10~+60°C (refer to output derating curve)

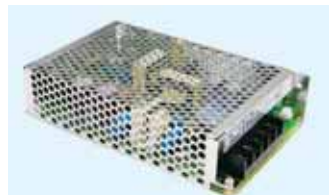
Safety standards Meet LVD

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 0.38kg ; 45pcs / 17.8kg / 0.9CUFT

Model No.	Input	Output	R&N	Effi.
SD-25A-5	9.2~18V	5V, 0~5.0A	100mV	71%
SD-25A-12	9.2~18V	12V, 0~2.1A	120mV	72%
SD-25A-24	9.2~18V	24V, 0~1.1A	150mV	75%
SD-25B-5	19~36V	5V, 0~5.0A	100mV	72%
SD-25B-12	19~36V	12V, 0~2.1A	120mV	75%
SD-25B-24	19~36V	24V, 0~1.1A	150mV	78%
SD-25C-5	36~72V	5V, 0~5.0A	100mV	74%
SD-25C-12	36~72V	12V, 0~2.1A	120mV	78%
SD-25C-24	36~72V	24V, 0~1.1A	150mV	81%

50W Single Output DC-DC Converter



CASE: 901

159x 97x 38 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V
 Line and load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~150% hiccup mode, auto-recovery
 Over voltage protection 115%~165% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Isolation resistance 100M Ω (min.) @500VDC
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standard Meet LVD
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8
 Packing 0.53kg ; 24pcs / 12.7kg / 0.75CUFT

Model No.	Input	Output	R&N	Effi.
SD-50A-5	9.2~18V	5V, 0~10A	100mV	70%
SD-50A-12	9.2~18V	12V, 0~4.2A	120mV	72%
SD-50A-24	9.2~18V	24V, 0~2.1A	150mV	74%
SD-50B-5	19~36V	5V, 0~10A	100mV	73%
SD-50B-12	19~36V	12V, 0~4.2A	120mV	75%
SD-50B-24	19~36V	24V, 0~2.1A	150mV	80%
SD-50C-5	36~72V	5V, 0~10A	100mV	76%
SD-50C-12	36~72V	12V, 0~4.2A	120mV	78%
SD-50C-24	36~72V	24V, 0~2.1A	150mV	83%

100W Single Output DC-DC Converter



(D type)



CASE: 902

199x 98x 38 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

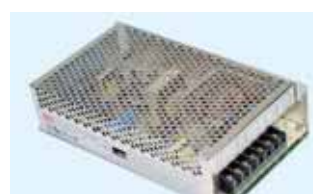
DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 115%~165% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Isolation resistance 100M Ω (min.) @500VDC
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8
 Packing 0.65kg ; 20pcs / 13.8kg / 0.8CUFT

Model No.	Input	Output	R&N	Effi.
SD-100B-5	19~36V	5V, 0~20A	100mV	74%
SD-100B-12	19~36V	12V, 0~8.5A	120mV	75%
SD-100B-24	19~36V	24V, 0~4.2A	150mV	78%
SD-100C-5	36~72V	5V, 0~20A	100mV	75%
SD-100C-12	36~72V	12V, 0~8.5A	120mV	77%
SD-100C-24	36~72V	24V, 0~4.2A	150mV	81%
SD-100D-5	72~144V	5V, 0~20A	100mV	76%
SD-100D-12	72~144V	12V, 0~8.5A	120mV	80%
SD-100D-24	72~144V	24V, 0~4.2A	150mV	83%

150W Single Output DC-DC Converter



(D type)



CASE: 906

199x 110x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage
- Built-in EMI filter, low ripple noise
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

DC adjustment range 12V: 11~16V, 24V: 23~30V
 Line regulation $\pm 0.5\%$ (max.)
 Load regulation $\pm 0.5\%$ (max.)
 Overload protection 105%~135% hiccup mode, auto-recovery
 Over voltage protection 130%~165% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 1.5kVAC, 1 minute
 Isolation resistance 100M Ω (min.) @500VDC
 Working temperature -10~+60°C (refer to output derating curve)
 Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8
 Packing 0.86kg ; 16pcs / 14.5kg / 0.95CUFT

Model No.	Input	Output	R&N	Effi.
SD-150B-12	19~36V	12V, 0~12.5A	120mV	75%
SD-150B-24	19~36V	24V, 0~6.3A	150mV	77%
SD-150C-12	36~72V	12V, 0~12.5A	120mV	77%
SD-150C-24	36~72V	24V, 0~6.3A	150mV	80%
SD-150D-12	72~144V	12V, 0~12.5A	120mV	79%
SD-150D-24	72~144V	24V, 0~6.3A	150mV	82%

200W Single Output DC-DC Converter



(SD-200C-24) (D type)



CASE: 912H

215x 115x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V, 48V: 43~53V
 Voltage tolerance $\pm 2\%$ (max.)
 Overload protection 105%~135% shut off, re-power on to recover
 Over voltage protection 110%~167% rated output voltage
 Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 2kVAC, 1 minute
 Working temperature -20~+60°C (refer to output derating curve)
 Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)
 EMC standards EN55022 class B, EN61000-4-2,3,4,6,8
 Packing 1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-200B-5	19~36V	5V, 0~34.0A	100mV	79%
SD-200B-12	19~36V	12V, 0~16.7A	120mV	82%
SD-200B-24	19~36V	24V, 0~8.40A	150mV	85%
SD-200B-48	19~36V	48V, 0~4.20A	200mV	86%
SD-200C-5	36~72V	5V, 0~40.0A	100mV	81%
SD-200C-12	36~72V	12V, 0~16.7A	120mV	84%
SD-200C-24	36~72V	24V, 0~8.40A	150mV	86%
SD-200C-48	36~72V	48V, 0~4.20A	200mV	86%
SD-200D-5	72~144V	5V, 0~40.0A	100mV	82%
SD-200D-12	72~144V	12V, 0~16.7A	120mV	82%
SD-200D-24	72~144V	24V, 0~8.40A	150mV	84%
SD-200D-48	72~144V	48V, 0~4.20A	200mV	90%

350W Single Output DC-DC Converter

CBCE

(D type)



CASE: 912B 215x 115x 50 mm

- 2:1 wide input range
- 1500VAC I/O isolation
- Protections: Short circuit / Over load / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- 2 years warranty

DC adjustment range 5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V, 48V: 43~53V

Voltage tolerance $\pm 2\%$ (max.)

Overload protection 105%~135% shut off, re-power on to recover

Over voltage protection .. 110%~167% rated output voltage

Withstand voltage I/P-O/P: 1.5kVAC, I/P-FG: 2kVAC, 1 minute

Working temperature -20~+60°C (refer to output derating curve)

Safety standards Meet LVD, EN60950-1 CB approved by TUV (D type only)

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 1.1kg ; 12pcs / 14.4kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-350B-5	19~36V	5V, 0~57.0A	100mV	74%
SD-350B-12	19~36V	12V, 0~27.5A	120mV	80%
SD-350B-24	19~36V	24V, 0~14.6A	150mV	80%
SD-350B-48	19~36V	48V, 0~7.30A	200mV	84%
SD-350C-5	36~72V	5V, 0~60.0A	100mV	76%
SD-350C-12	36~72V	12V, 0~27.5A	120mV	81%
SD-350C-24	36~72V	24V, 0~14.6A	150mV	81%
SD-350C-48	36~72V	48V, 0~7.30A	200mV	82%
SD-350D-5	72~144V	5V, 0~60.0A	100mV	78%
SD-350D-12	72~144V	12V, 0~29.2A	120mV	83%
SD-350D-24	72~144V	24V, 0~14.6A	150mV	87%
SD-350D-48	72~144V	48V, 0~7.30A	200mV	89%

500W Single Output DC-DC Converter

CBCE



CASE: 912A 215x 115x 50 mm

- 4:1 & 2:1 DC input range
- DC input active surge current limiting
- Protections: Short circuit / Overload / Over voltage / Over temp. / Input polarity
- 2000VAC I/O Isolation
- Forced air cooling by built-in DC fan with fan speed control function
- Output OK signal
- Built-in remote ON/OFF control
- Built-in remote sense function
- 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~125% constant current limiting, shut off after 5 sec., re-power on to recover

Over voltage protection 130%~160% rated output voltage

Withstand voltage I/P-O/P: 2kV, I/P-FG: 2kV, 1 minute

Isolation resistance 100M Ω (min.) @500VDC

Working temperature -20~+60°C (refer to output derating curve)

Safety standards IEC60950-1 CB approved by TUV

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 1.15kg ; 12pcs / 14.8kg / 0.92CUFT

Model No.	Input	Output	R&N	Effi.
SD-500L-12	19~72V	12V, 0~40A	150mV	86%
SD-500L-24	19~72V	24V, 0~21A	150mV	88%
SD-500L-48	19~72V	48V, 0~10.5A	150mV	89%
SD-500H-12	72~144V	12V, 0~40A	150mV	87%
SD-500H-24	72~144V	24V, 0~21A	150mV	89%
SD-500H-48	72~144V	48V, 0~10.5A	150mV	90%

1000W Single Output DC-DC Converter

CBCE



CASE: 952B 295x 127x 41 mm

- 4:1 & 2:1 wide input range
- 2000VAC I/O Isolation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Forced air cooling by built-in DC fan
- High power density 10.7W/inch³
- 1U low profile 41mm
- Output OK signal
- 12V / 0.25A auxiliary output
- Built-in remote ON/OFF control
- Built-in remote sense function
- 3 years warranty

DC adjustment range 12V: 11~15V, 24V: 23~30V, 48V: 46~60V

Line regulation $\pm 0.5\%$ (max.)

Load regulation $\pm 0.5\%$ (max.)

Overload protection 105%~125% constant current limiting, shut off after 5 sec., re-power on to recover

Over voltage protection 130%~160% rated output voltage

Withstand voltage I/P-O/P: 2kV, I/P-FG: 1.5kV, 1 minute

Isolation resistance 100M Ω (min.) @500VDC

Working temperature -20~+60°C (refer to output derating curve)

Safety standards IEC60950-1 CB approved by TUV

EMC standards EN55022 class B, EN61000-4-2,3,4,6,8

Packing 1.94kg ; 6pcs / 12.6kg / 0.99CUFT

Model No.	Input	Output	R&N	Effi.
SD-1000L-12	19~72V	12V, 0~60A	150mV	84%
SD-1000L-24	19~72V	24V, 0~40A	150mV	88%
SD-1000L-48	19~72V	48V, 0~21A	150mV	90%
SD-1000H-12	72~144V	12V, 0~60A	150mV	85%
SD-1000H-24	72~144V	24V, 0~40A	150mV	89%
SD-1000H-48	72~144V	48V, 0~21A	150mV	92%

Under Development

RPB-1600 Series
1600W AC/DC Battery Charger

- 3 stage charging
- Universal AC input / Full range
- 1U low profile 41mm
- Built-in active PFC function
- High efficiency up to 93%
- Forced air cooling by built-in DC fan with fan speed control
- Vo and Io can be adjusted
- Protections: Short circuit / Over voltage / Over temperature
- Built-in remote ON-OFF control
- Built-in CANBus interface
- Output models: 14.4V/28.8V/57.6V
- Dimension(LxWxH): 320x 85x 41mm
- 3 years warranty

DC/DC Converter 100~300W Railway Single Output



Features

- Compliance to EN50155 and EN45545-2 railway standard
- 2:1 wide input range
- 4000VDC I/O isolation
- Protections:
 - Short circuit / Overload / Over voltage / Input reverse polarity / Over temp.(RSD-150/200/300)
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile
- All using 105°C long life electrolytic capacitors
- Half encapsulated
- 100% full load burn-in test
- 3 years warranty

General Specification (Please refer to www.meanwell.com for detail spec.)



Model No.	RSD-100	RSD-150	RSD-200	RSD-300
Line regulation (max.)	±0.5%			
Load regulation (max.)	±1%			
Overload protection	Range	105%~135%		
	Type	Constant current limiting, recovers automatically after fault condition is removed		
Over voltage protection	115%~135% Shut down O/P voltage, re-power on to recover			115%~140%
Withstand voltage	I/P-O/P: 4kVDC, I/P-FG: 2.5kVDC, O/P-FG: 2.5kVDC, 1 minute			
Isolation resistance	100MΩ(min.) @500VDC			
Working temperature	-40~+70°C (refer to output derating curve)			
Safety standards	Meet IEC60950-1(LVD)			
EMC standards	EN55022 class B, EN50121-3-2, EN61000-4-2,3,4,5,6,8			
Railway standard	EN50155 / IEC60571; EN45545-2			
Dimension (LxWxH)(mm)	161x68x36	189x77x36	191x86x40	216x97x40
Packing	24pcs / 15.4kg	15pcs / 13kg	12pcs / 12.3kg	12pcs / 15.3kg

100W

RSD-100

Model No.	Input (1 sec / continuous)	Output	R&N	Effi.
RSD-100B-5	14.4~33.6V / 16.8~31.2V	5V, 0~20A	100mV	88.0%
RSD-100B-12	14.4~33.6V / 16.8~31.2V	12V, 0~8.4A	120mV	89.0%
RSD-100B-24	14.4~33.6V / 16.8~31.2V	24V, 0~4.2A	150mV	89.0%
RSD-100C-5	28.8~67.2V / 33.6~62.4V	5V, 0~20A	100mV	89.0%
RSD-100C-12	28.8~67.2V / 33.6~62.4V	12V, 0~8.4A	120mV	91.0%
RSD-100C-24	28.8~67.2V / 33.6~62.4V	24V, 0~4.2A	150mV	91.0%
RSD-100D-5	57.6~154V / 67.2~143V	5V, 0~20A	100mV	89.5%
RSD-100D-12	57.6~154V / 67.2~143V	12V, 0~8.4A	120mV	91.0%
RSD-100D-24	57.6~154V / 67.2~143V	24V, 0~4.2A	150mV	90.0%

150W

RSD-150

Model No.	Input (1 sec / continuous)	Output	R&N	Effi.
RSD-150B-5	14.4~33.6V / 16.8~31.2V	5V, 0~30A	100mV	89%
RSD-150B-12	14.4~33.6V / 16.8~31.2V	12V, 0~12.5A	120mV	90%
RSD-150B-24	14.4~33.6V / 16.8~31.2V	24V, 0~6.3A	150mV	90%
RSD-150C-5	28.8~67.2V / 33.6~62.4V	5V, 0~30A	100mV	90%
RSD-150C-12	28.8~67.2V / 33.6~62.4V	12V, 0~12.5A	120mV	92%
RSD-150C-24	28.8~67.2V / 33.6~62.4V	24V, 0~6.3A	150mV	91%
RSD-150D-5	57.6~154V / 67.2~143V	5V, 0~30A	100mV	90%
RSD-150D-12	57.6~154V / 67.2~143V	12V, 0~12.5A	120mV	92%
RSD-150D-24	57.6~154V / 67.2~143V	24V, 0~6.3A	150mV	91%

200W

RSD-200

Model No.	Input (1 sec / continuous)	Output	R&N	Effi.
RSD-200B-12	14.4~33.6V / 16.8~31.2V	12V, 0~16.7A	120mV	89%
RSD-200B-24	14.4~33.6V / 16.8~31.2V	24V, 0~8.4A	150mV	89%
RSD-200B-48	14.4~33.6V / 16.8~31.2V	48V, 0~4.2A	180mV	89%
RSD-200C-12	28.8~67.2V / 33.6~62.4V	12V, 0~16.7A	120mV	91%
RSD-200C-24	28.8~67.2V / 33.6~62.4V	24V, 0~8.4A	150mV	91%

Model No.	Input (1 sec / continuous)	Output	R&N	Effi.
RSD-200C-48	28.8~67.2V / 33.6~62.4V	48V, 0~4.2A	180mV	91%
RSD-200D-12	57.6~154V / 67.2~143V	12V, 0~16.7A	120mV	91%
RSD-200D-24	57.6~154V / 67.2~143V	24V, 0~8.4A	150mV	91%
RSD-200D-48	57.6~154V / 67.2~143V	48V, 0~4.2A	180mV	91%

300W

RSD-300

Model No.	Input (1 sec / continuous)	Output	R&N	Effi.
RSD-300B-5	14.4~33.6V / 16.8~31.2V	5V, 0~42A	100mV	89.0%
RSD-300B-12	14.4~33.6V / 16.8~31.2V	12V, 0~22.5A	120mV	89.5%
RSD-300B-24	14.4~33.6V / 16.8~31.2V	24V, 0~11.3A	150mV	90.0%
RSD-300B-48	14.4~33.6V / 16.8~31.2V	48V, 0~5.7A	180mV	91.5%
RSD-300C-5	28.8~67.2V / 33.6~62.4V	5V, 0~42A	100mV	90.5%
RSD-300C-12	28.8~67.2V / 33.6~62.4V	12V, 0~25A	120mV	91.0%
RSD-300C-24	28.8~67.2V / 33.6~62.4V	24V, 0~12.5A	150mV	91.5%
RSD-300C-48	28.8~67.2V / 33.6~62.4V	48V, 0~6.3A	180mV	92.0%
RSD-300D-5	57.6~154V / 67.2~143V	5V, 0~42A	100mV	90.0%
RSD-300D-12	57.6~154V / 67.2~143V	12V, 0~25A	120mV	91.5%
RSD-300D-24	57.6~154V / 67.2~143V	24V, 0~12.5A	150mV	91.5%
RSD-300D-48	57.6~154V / 67.2~143V	48V, 0~6.3A	180mV	91.5%
RSD-300E-5	21.6~50.4V / 25.2~46.8V	5V, 0~42A	100mV	88.0%
RSD-300E-12	21.6~50.4V / 25.2~46.8V	12V, 0~25A	120mV	90.0%
RSD-300E-24	21.6~50.4V / 25.2~46.8V	24V, 0~12.5A	150mV	91.0%
RSD-300E-48	21.6~50.4V / 25.2~46.8V	48V, 0~6.3A	180mV	91.0%
RSD-300F-5	43.2~100.8V / 50.4~93.6V	5V, 0~42A	100mV	89.0%
RSD-300F-12	43.2~100.8V / 50.4~93.6V	12V, 0~25A	120mV	91.0%
RSD-300F-24	43.2~100.8V / 50.4~93.6V	24V, 0~12.5A	150mV	91.0%
RSD-300F-48	43.2~100.8V / 50.4~93.6V	48V, 0~6.3A	180mV	91.5%

LED Power Family



- Outdoor Lighting
- 40~600W
- HLG, HVG, CLG series, etc.



- Indoor Lighting
 - 8~150W
 - AP, LP, NPF, PLM, HLP, GSC*, OWA* series, etc.
- * External power supply



- Intelligent Lighting
- 25~150W
- LCM, ELG, WPD series, etc.



- Bay Lighting
- 60~240W
- HBG series
- Strip Lighting
- 40~120W
- PWM series

► Please contact with our sales representative for new LED catalog or visit our website: www.meanwell.com/product/led/led.html

Inverter Family

■ GSI Series

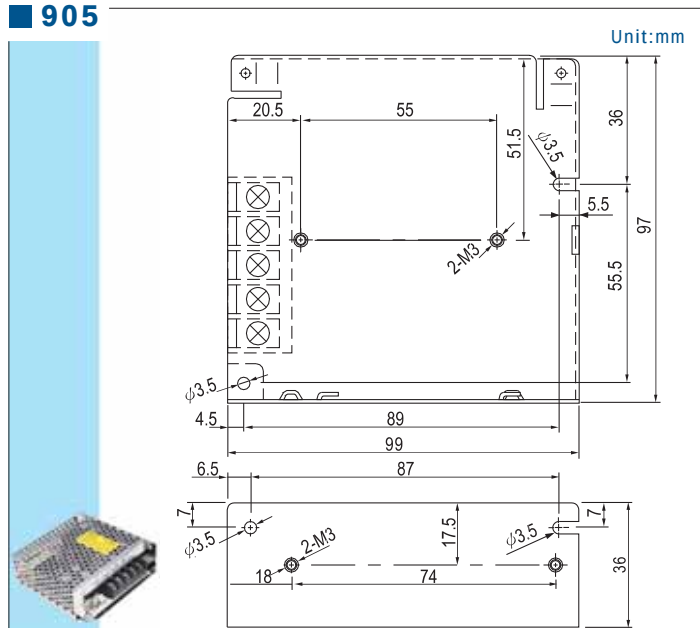


■ TS/TN/ISI Series

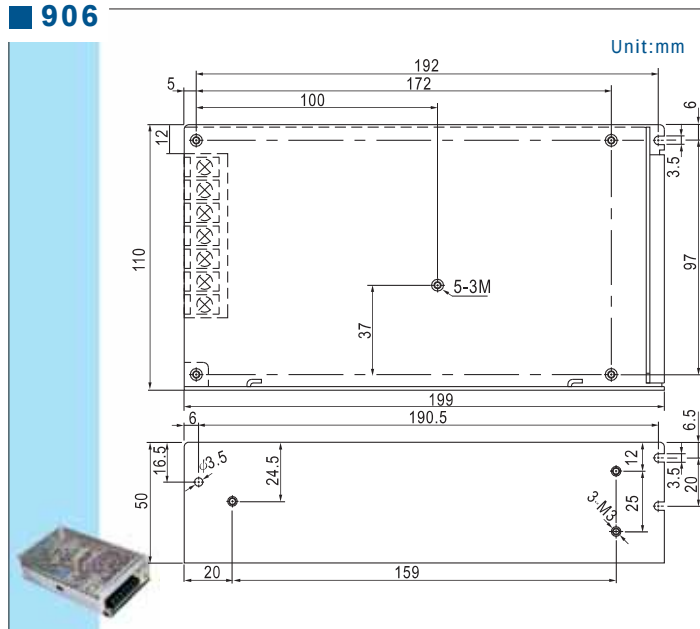


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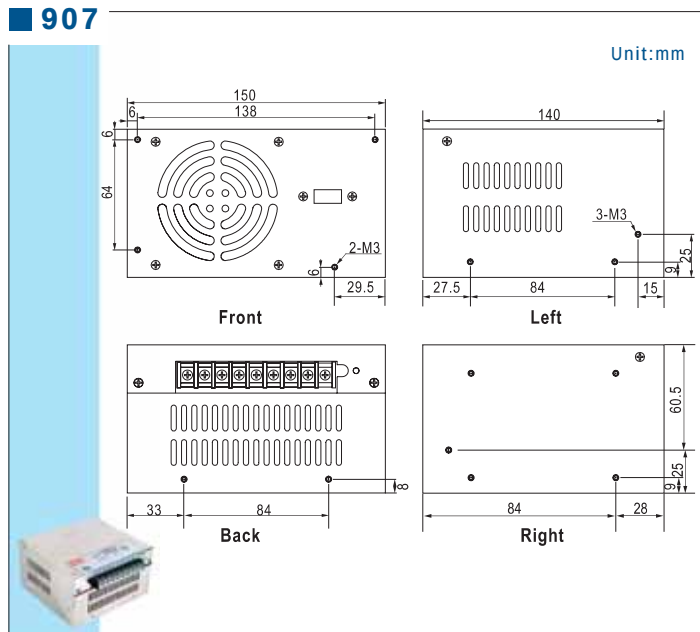
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906

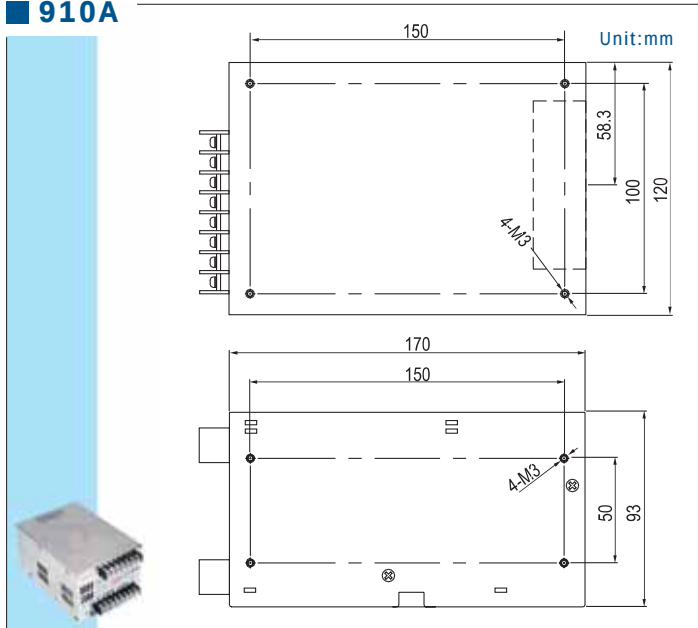


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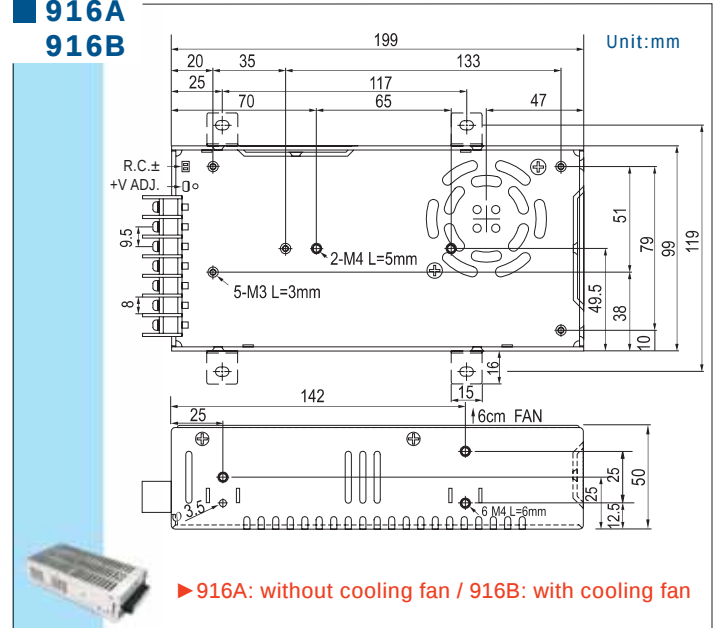


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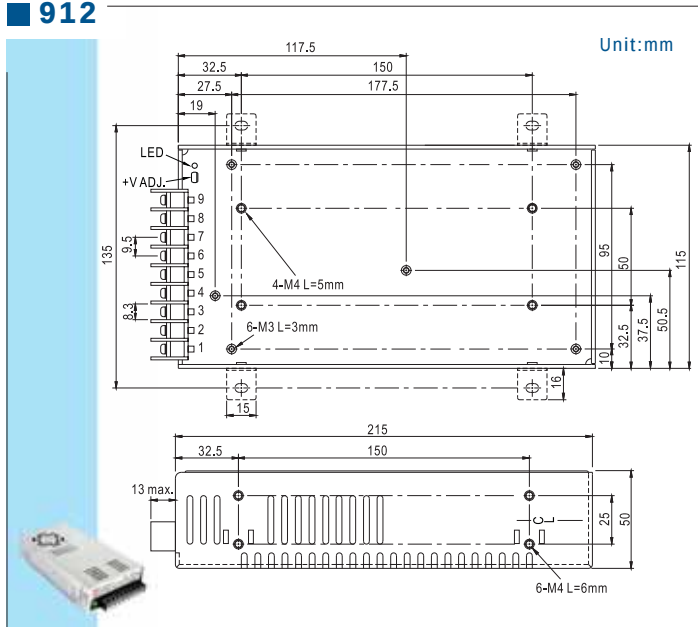
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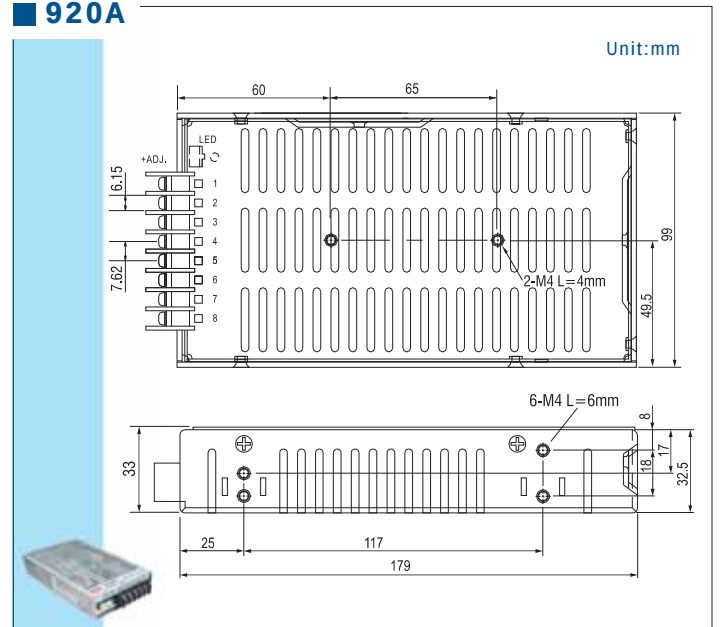
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916B**



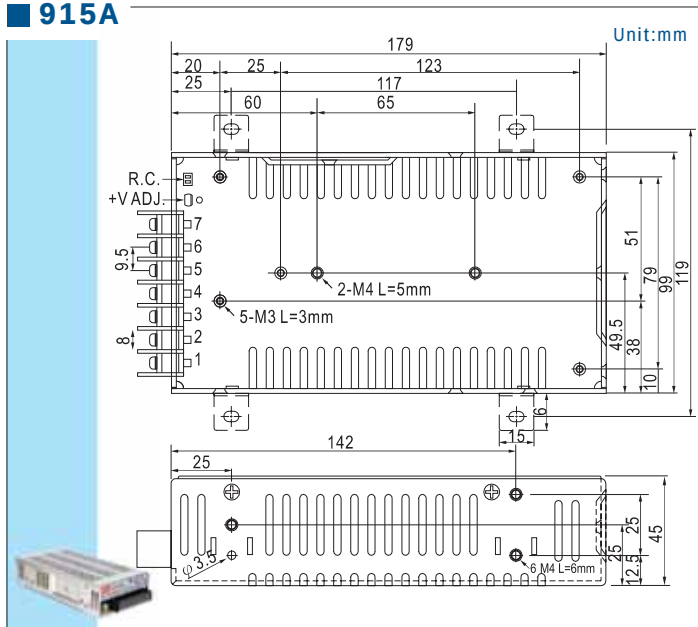
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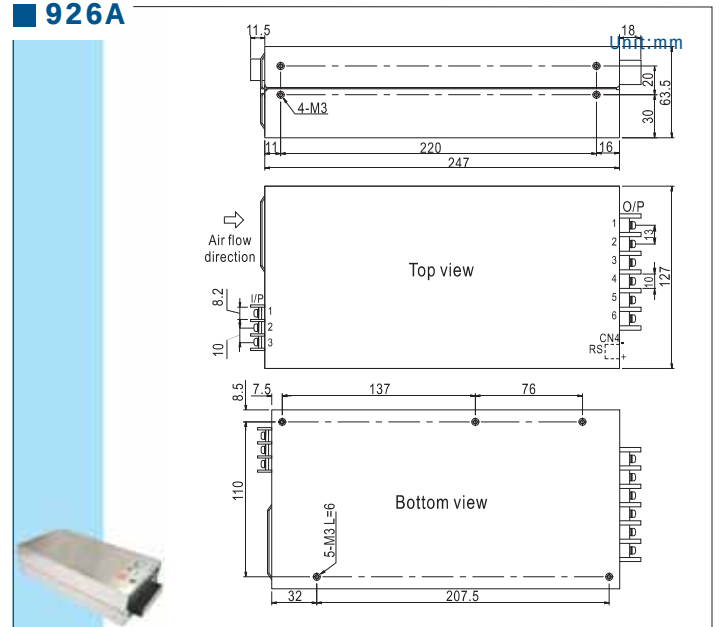
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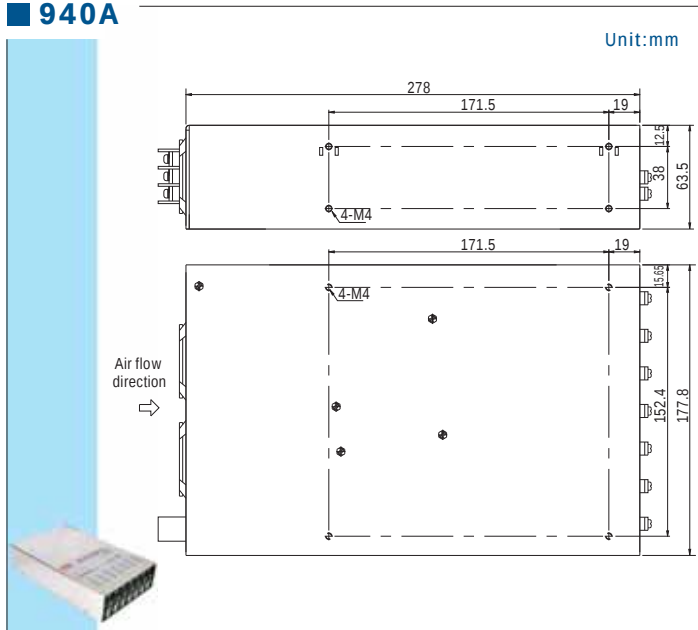


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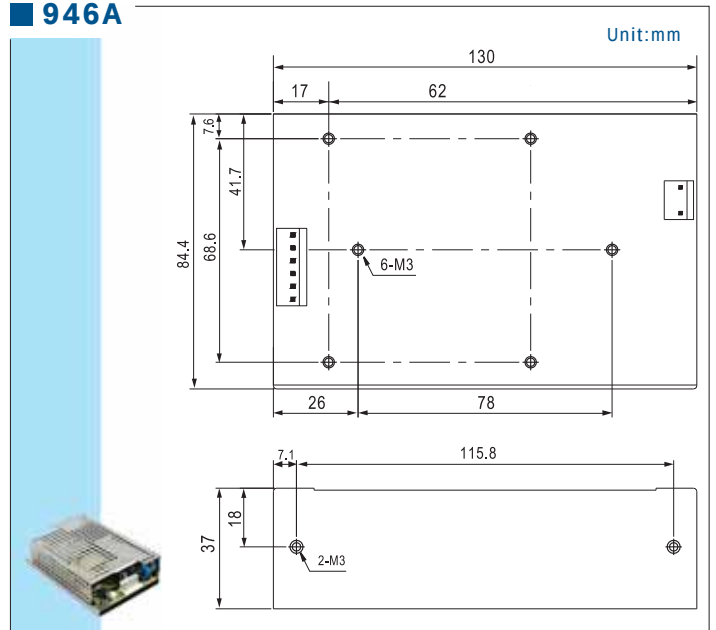


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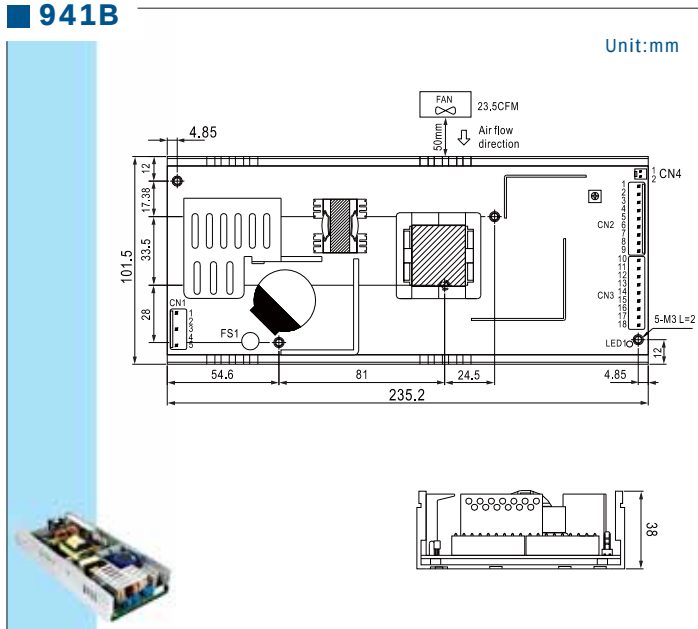
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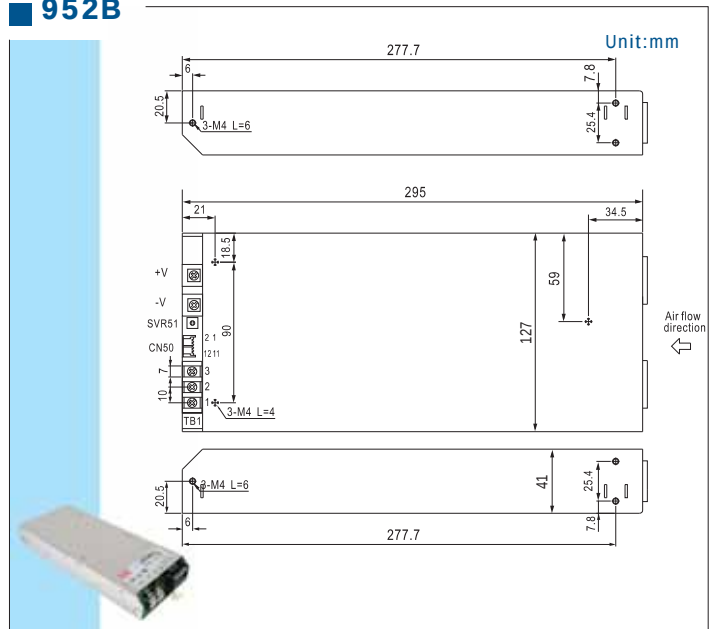
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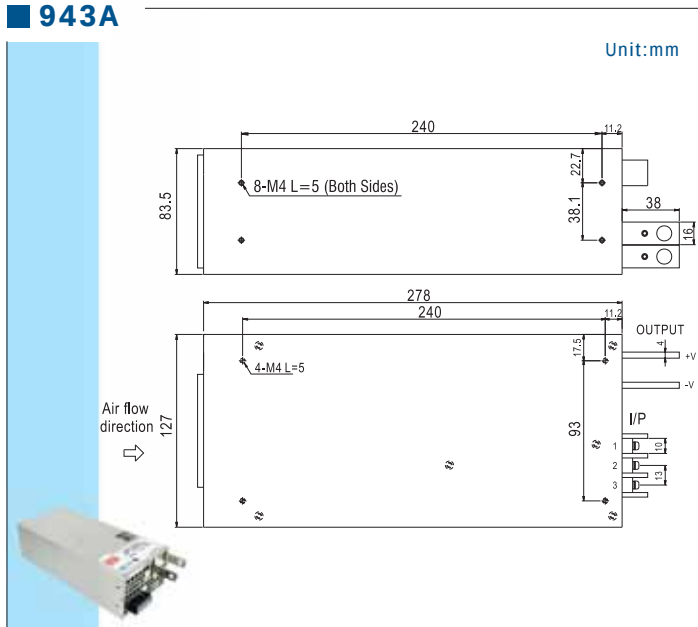
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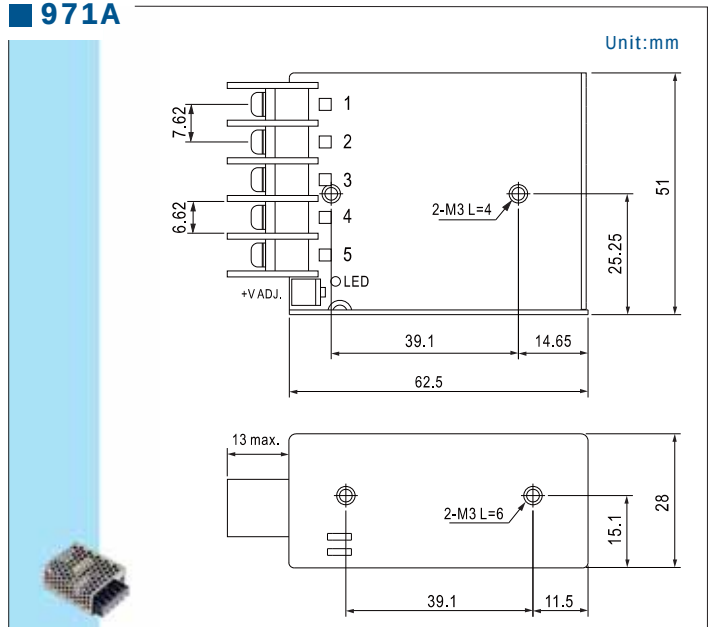
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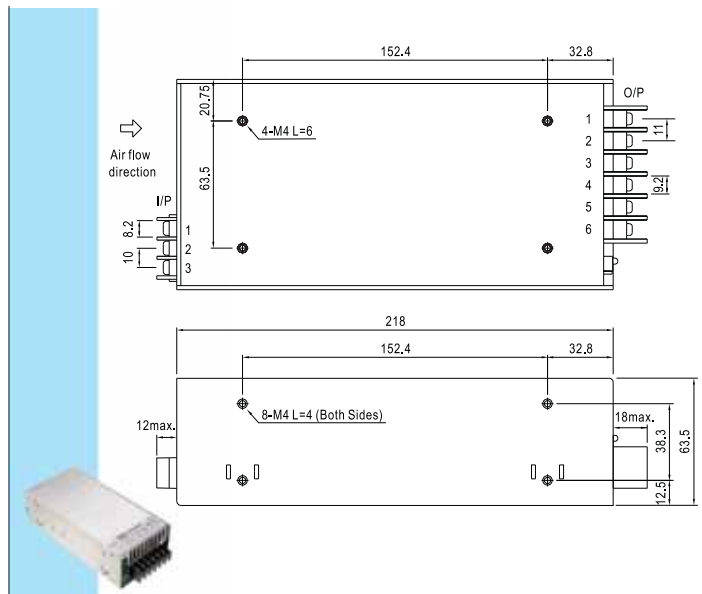
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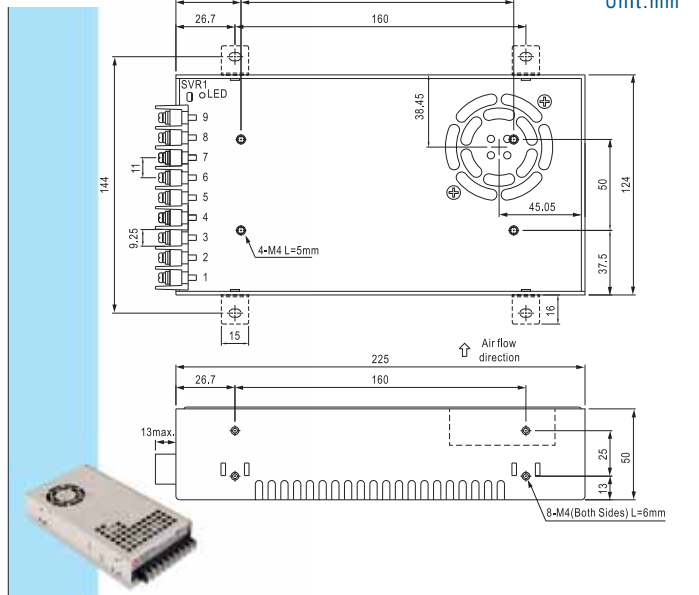
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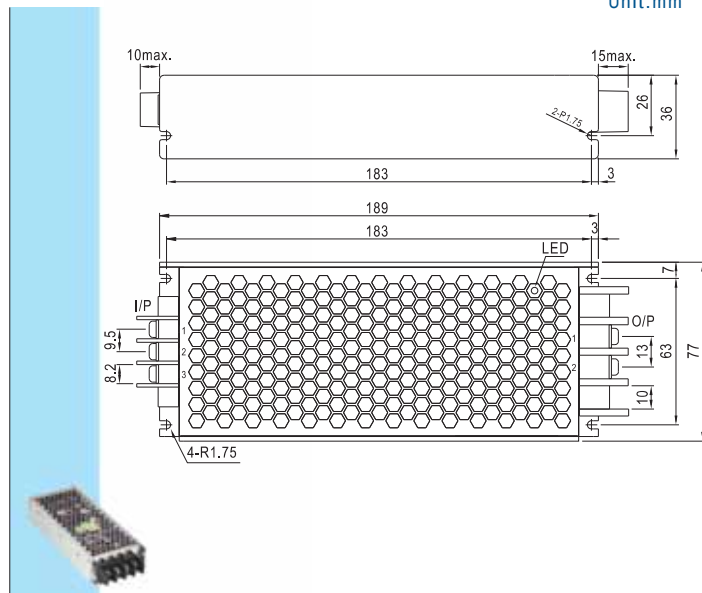
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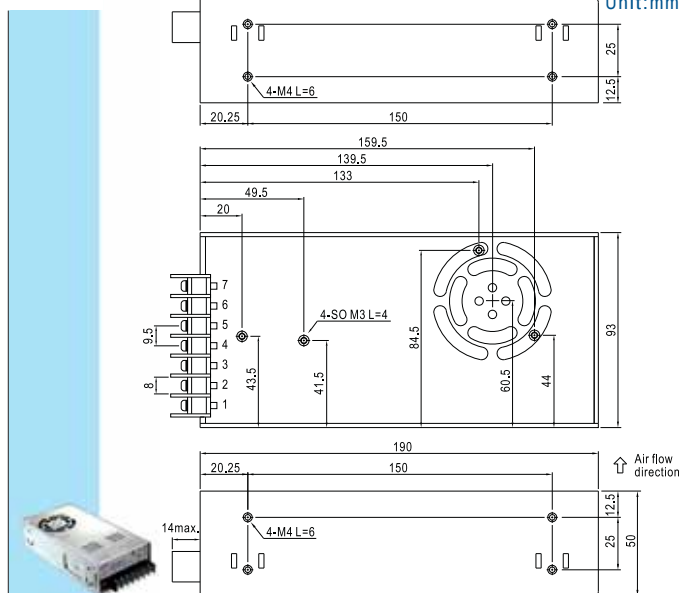
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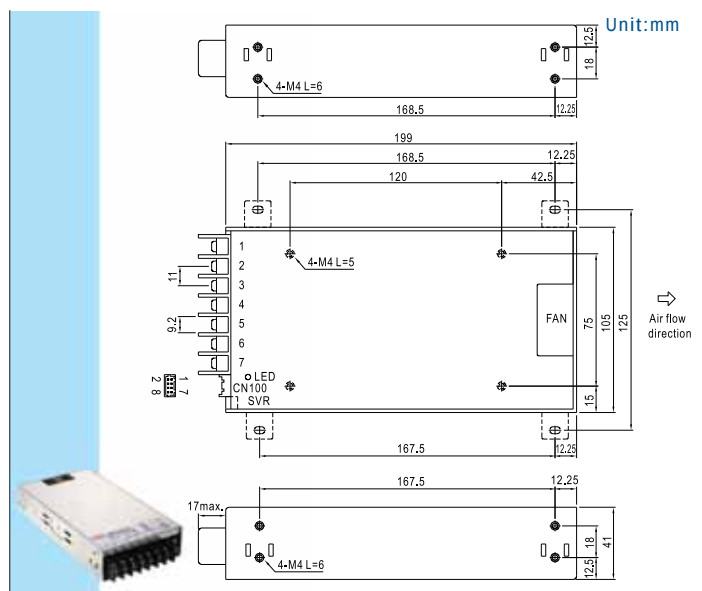
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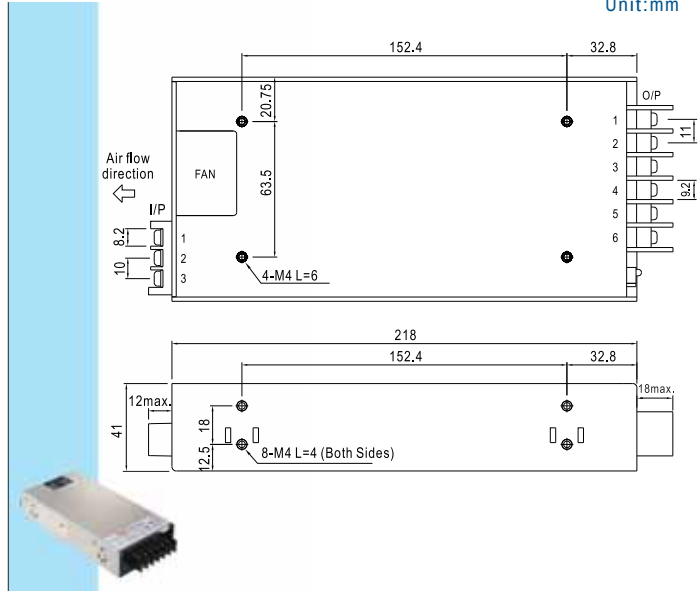
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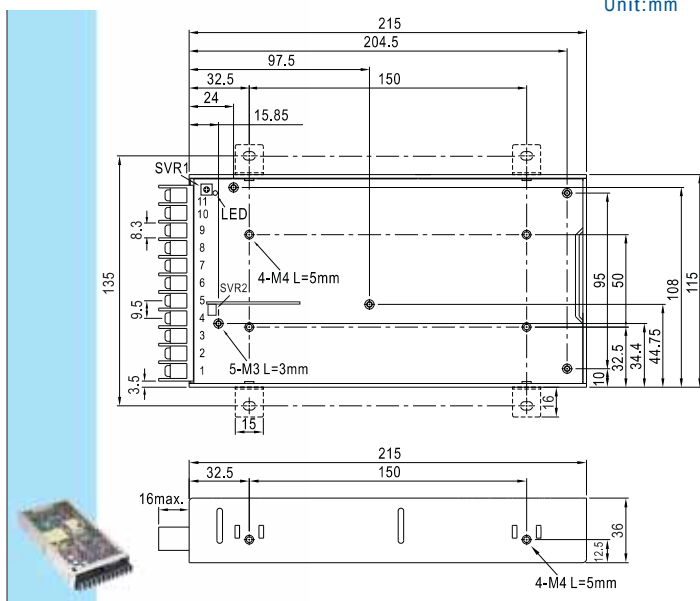


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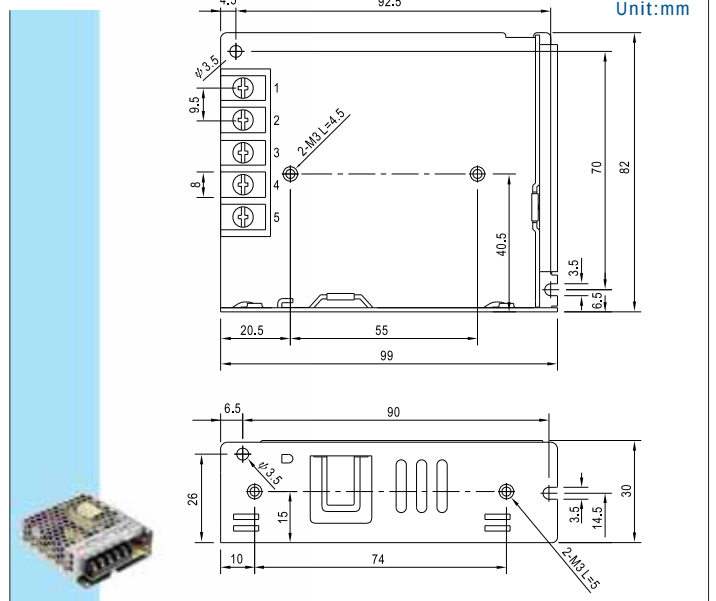


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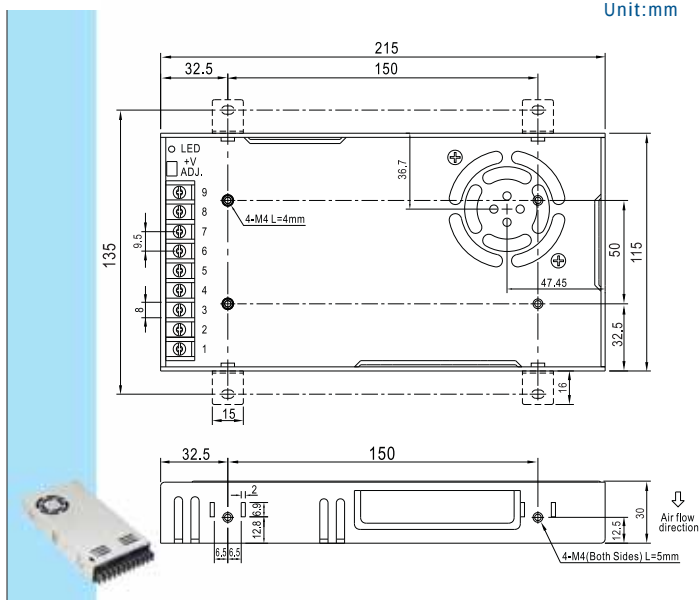
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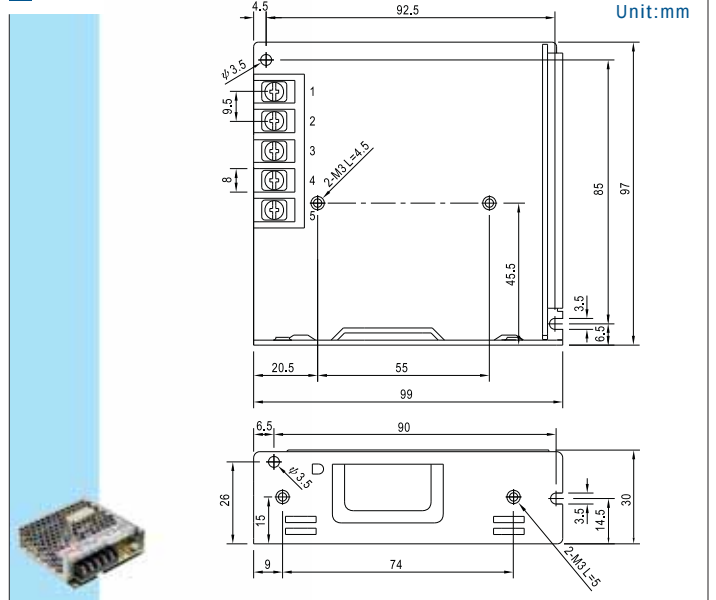
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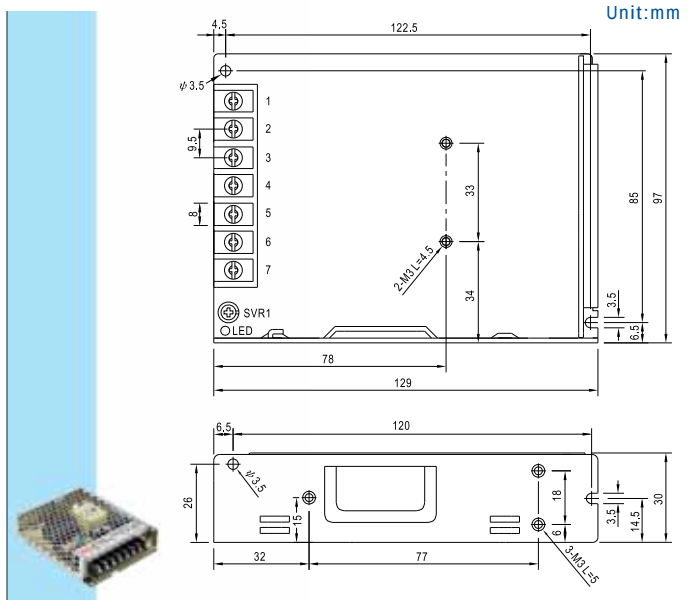
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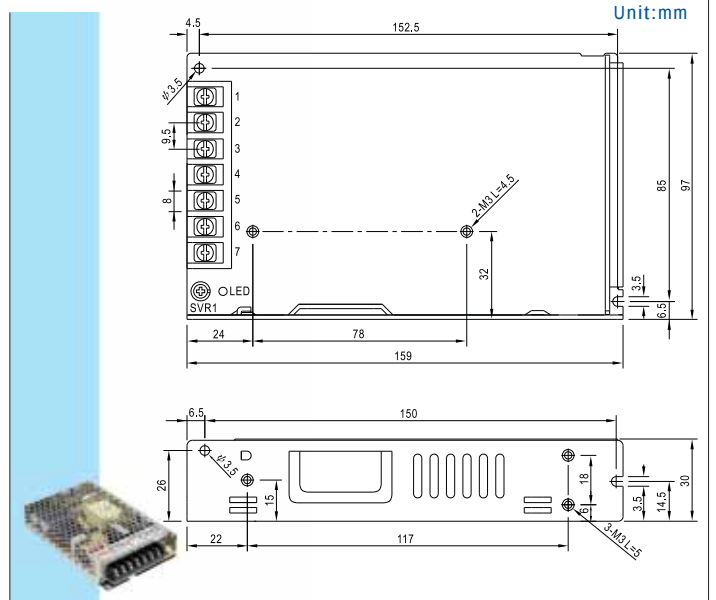
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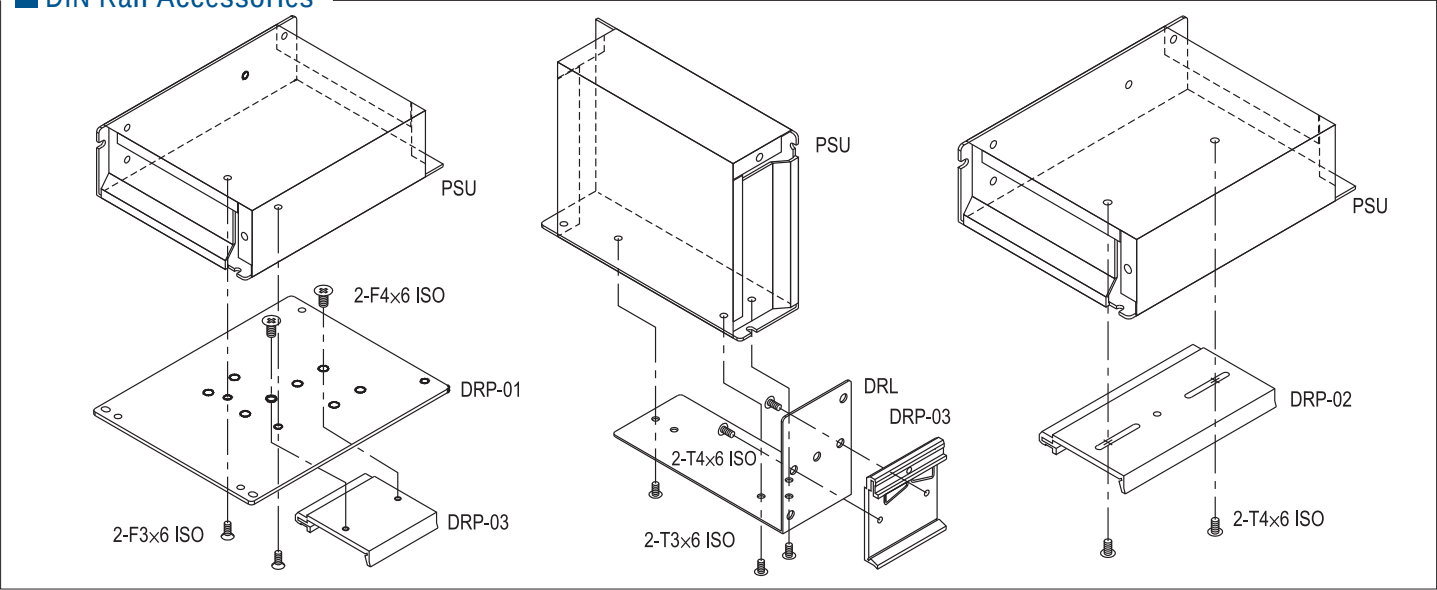
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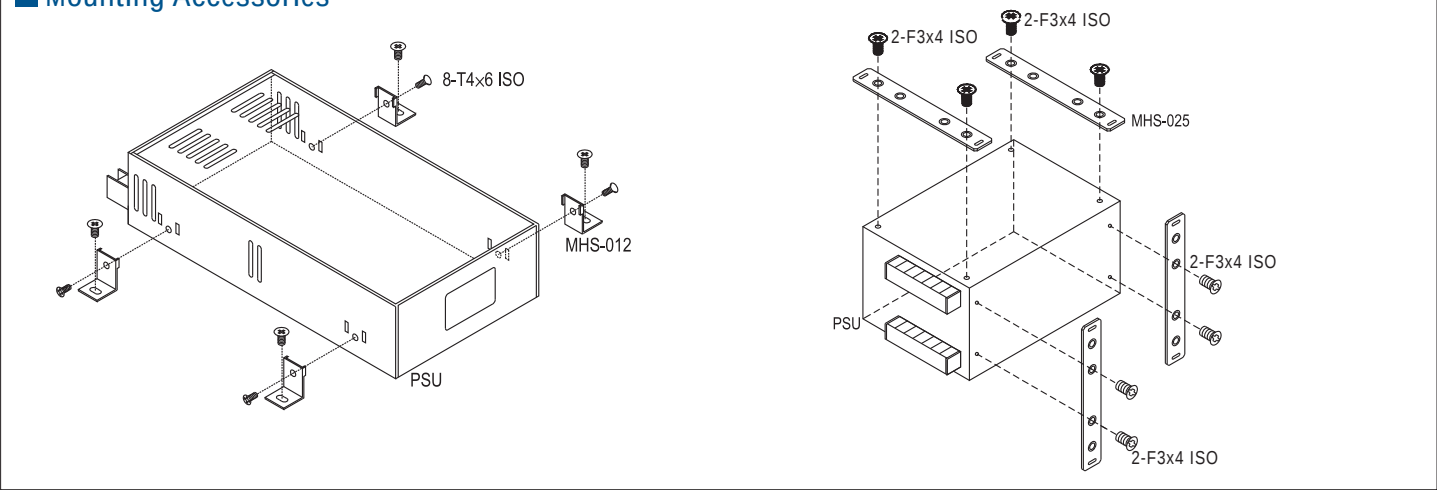
■ 241A



DIN Rail Accessories



Mounting Accessories



ITEM	Order No.	Case	Model
	DRL-01	903 905 931 932 971	S-40, D-30, T-30, S-15, S-25, RS-25, NES-15 RS-35, NES-25 RS-15
	DRL-02	901 902 906 915 916 920	S-50, S-60, D-60, S-100, S-100F, SD-100, S-150, SD-150, D-120, SP-100, SP-150, SP-200, SP-75,
	DRL-03A	980 987	SP-240, HRP(G)-300
	DRP-01	901, 902 903, 906 931, 932 946	All models
	DRP-01A	203 205 978 999	RSD-100 / 150 / 200 / 300
	DRP-02	905 / 915 916 / 920 928	S-15, S-25, ... / SP-100, ... SP-150, SP-200, ... / SP-75, ... USP-225,
	DRP-03	DRP-01 DRL-01-03	All models
	DRP-04	203 205 978 999	RSD-100 / 150 / 200 / 300

ITEM	Order No.	Case	Model
	MHS012	206, 207 912, 915 916, 935 939, 940 977, 980 982, 986 987, 995	HDP-190, RSP-200/320, S-201, S-320, S-350, SP-100, SP-150, SP-200, SP-320, SE-450/1000, MP450/650/1000, SP-240, HRP-300/450/600, RSP-2400/3000
	MHS013	919 926	PSP-500, SP-750, SE-600
	MHS014	212 952	RSP-750 RSP-1000, SD-1000
	MHS025	910	SP-500, PSP-600.....
	MHS026	943	RSP-1500
	MHS027	971 931	RS-15 RS-25
 TBC is the cover for terminal block	TBC-05	901 903 905 932 220 239A 240A	SD-50, S-60 S-40, NES-50, RS-75 S-25, SD-25, NES-35, RS-50 NES-25, RS-35 RSP-75 LRS-35/50 LRS-75
	TBC-07	901 902 903 905 906 215A 227A 238A 241A	D/ID-60, NED/T-75, RD-85, NES-100, RS-100, T-60 S-100F, RD-125, NES-150, RS-150, SD-100, NED/T-50, RD/RID-65, T-40 NED/T-35, RD-50 S-150, SC-150, SD-150 RSP-150 RSP-100 LRS-100 LRS-150, LRS-150F
	TBC-08	901 906	AD-155, ADD/ADS-155 D/T/Q-120
	TBC-09	207	RSP-200/320, LRS-200/350

Quotation

- Most of our standard products are available and in stock through our global authorized distributors. Please contact your local distributor for prompt service. Please let us know if you are unable to find Mean Well's distributor information in your local area.
- Written quotations are valid for 60 days from the date quoted unless otherwise specified. Customers are responsible for all banking related charges outside of Taiwan.

Order

- Orders must be placed to Mean Well by mail, e-mail, or fax. Please do not place your order by phone. For international business, Mean Well will provide order confirmations with scheduled delivery dates. If you fail to receive an order confirmation within 2 working days, please reconfirm your order.
- Minimum order amounts per shipment are determined by our local distributor's stock capability. Please contact our sales representative for details.
- We encourage customers to place long-term orders. However, order cancellations or reschedules must be made 45 days prior to the scheduled shipping date.

Delivery

- For our standard products, Mean Well usually keeps around 2-8 weeks safety stock (based on the past 3 months sales record) for prompt delivery of small / medium quantity orders. For large quantity or new product orders, 3-5 weeks lead-time is needed.

Return

- All returned goods must have a RMA (return material authorization) number marked on each carton. Contact Mean Well for a RMA number. All goods must be shipped as "freight prepaid" unless otherwise confirmed by our sales representatives.

Warranty

- Products found to be defective within 30 days from the date of receipt can be returned for credit or exchange. After the initial 30 days, Mean Well will repair the goods according to our warranty period. Contact Mean Well for further information on credit or a RMA number. Goods should be shipped as "freight prepaid" to Mean Well and Mean Well will repair and return the defective units (freight prepaid) within 7 working days. If the warranty period has expired, a repair fee (depends on the condition of the product) will be charged.
- If customers do the repair by themselves, Mean Well can provide reasonable quantity of free components for repair purpose.
- Apart from the external type power supply, the power supply is in general one component of the final system; particularly, the compatibility between the power supply and the system is closely associated. Should you have any difficulty in normally operating the power supplies, please contact our sales representatives and figure out the root cause. If the problem results from the power supply, the warranty right will be applied; if any issues arise from inappropriate installation or incompatibility between the power supply and the system, MEAN WELL will reserve the right to fulfill the warranty .

Attention

- We make every effort to ensure the accuracy of information in the catalog. If there is any discrepancy between the data presented in our catalog and the SPEC, the SPEC sheets should take precedence (please refer to www.meanwell.com for the latest SPEC information). We cannot take any responsibility of any consequence arising due to error or change in specification. We suggest customers conduct a sample test for evaluation and approval before placing a formal order.
- For continuing product improvement, Mean Well reserves the right to revise any information in this catalog without further notification.

The EMC directive applies to component power supplies

- Mean Well ensures that all of the power supplies with CE declaration are designed to meet EMC directives and are verified by an independent certified lab agent with a test report prepared. However, there are 2 categories for power supplies: One is a stand-alone power supply, such as laboratory power supplies which can be tested under EMC individually. The other category is a component power supply such as an enclosed power supply and open PCB power supply. These power supplies are considered a component which will be installed into a final equipment. Since EMC performance is affected by the final installation of a product, Mean Well cannot guarantee that the final equipment will meet EMC directives. Final product manufacturers must re-confirm that their product meets EMC directives.



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Please Contact Your Local Distributor

www.meanwell.com





LED Power Supply



October
2014

About MEAN WELL

Established in 1982, MEAN WELL is a leading standard switching power supply manufacturer with advanced manufacturing facilities in Taiwan, GuangZhou, and SuZhou as well as sales offices in China, USA, and Europe. We have more than 5,000 standard models selling through 200 authorized distributors all over the world.

Since 2006, we started to endeavor the development for waterproof LED power supplies. Thus far, more than 1000 models complying with specific lighting norms per UL8750, UL1310, UL879, EN61347-2-13, IEC61347-2-13(CB), and EN61000-3-2 Class C (harmonic current) have been launched in the market with utmost success. In this catalog, we are glad to introduce you different types of LED power supplies, which are very suitable for all kinds of outdoor or indoor LED lighting related applications, such as LED street lighting, LED tunnel lighting, outdoor electronic display, office lighting, LED decorative lighting, LED architectural lighting and others.

If these LED power supplies cannot directly fulfill your requirement, please look into MEAN WELL standard industrial switching power supplies, ranging from 5W to 5,000W, for more selection.

Please visit our website for more details — www.meanwell.com

New Products Overview

OWA-60/90/120

60~120W External Type

- Class II (no F.G.) , 90~264VAC input
- No load power consumption<0.15W
- UL8750 LISTED, EN61558/EN60335 LISTED
- EISA 2007(Level VI), ErP step 2 (Level V)
- Output models:
12V / 15V / 20V / 24V / 30V /
36V / 42V / 48V / 54V
- 5 years warranty



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LCM-25(DA)/40(DA)/60(DA)

25~60W Multiple-Stage Io Level Selectable

- Class II (no F.G.) , 180~277VAC input with PFC
- No load power consumption<0.5~1W
- Dimming function: 0~10VDC / PWM signal / DALI interface / Push dimming
- Support synchronization function up to 10 units
- Output current level selectable by DIP switch:
350 / 500 / 600 / 700 / 900 /
1050 / 1400mA
- 3 years warranty



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PWM-40/60/90/120

40~120W PWM Output with PFC

- Class II (no F.G.) , 90~305VAC input
- Constant voltage PWM style output
- No load power consumption<0.5W
- 2 in 1 dimming function
- Output models:
12V / 24V / 36V / 48V
- 5 years warranty



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HLG-600H

600W High Efficiency with PFC

- 90~305VAC input
- High efficiency up to 96%
- Fanless design and high IP level , suitable for outdoor environment
- Output models:
12V / 15V / 20V / 24V / 30V /
36V / 42V / 48V / 54V
- 5 years warranty



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▪ PFC Function ▪ Push Terminal I/O			▪ C.C. Output with High Output Voltage >60VDC for HVG(C) Series		
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AP series

12~35W Single Output LED Power Supply

Features

- Universal AC input / Full range
- Fully isolated plastic case
- Protections: Short circuit / Overload (APV only) / Over voltage
- Constant voltage mode for APV series
- Constant current mode for APC series
- IP30 design
- Withstand 300VAC surge input for 5 seconds (APV/C-25/35)
- Class 2 power unit / Pass LPS (except for APC-25-350 & APC-35-350/500)
- Isolation class II, no F.G.
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

		APV-12/16	APC-12/16	APV-25/35	APC-25/35
INPUT					
OUTPUT					
AC input voltage range		90~264VAC ; 127~370VDC			
AC inrush current (max.)		APC/V-12: Cold start, 70A at 230VAC APC-16: Cold start, 45A at 230VAC APV-16: Cold start, 50A at 230VAC		Cold start, 45A at 230VAC	
Overload protection (APV only)	Range	>105% rated output current			
	Type	Hiccup up mode, auto-recovery			
Over voltage protection		110%~145% rated output voltage			
Withstand voltage		I/P-O/P: 3.75kVAC		I/P-O/P: 3kVAC	
Working temperature		-30~+70℃ (refer to output derating curve)			
Vibration		10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes			
Safety standards		UL8750, ENEC EN61347-1/2-13, EN62384, IEC61347-1/2-13 approved; Design refer to IEC60950-1		UL8750 approved (except for APC-25-350&APC-35-350/500); Design refer to TUV EN60950-1	
EMC standards		EN55015, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11	
Connection	Input	UL rated, 18AWGx2C (15cm)		UL rated, 18AWGx2C (15cm)	
	Output	UL rated, 20AWGx2C (15cm)		UL rated, 18AWGx2C (15cm)	
Dimension (LxWxH)(mm)		77x 40x 29		84x 57x 29.5	

APV-12 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
APV-12-5	5V, 0~2A	±5%	100mV	76%
APV-12-12	12V, 0~1A	±5%	120mV	82%
APV-12-15	15V, 0~0.8A	±5%	120mV	82%
APV-12-24	24V, 0~0.5A	±5%	150mV	84%

APV-16 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
APV-16-5	5V, 0~2.6A	±5%	100mV	76%
APV-16-12	12V, 0~1.25A	±5%	120mV	80%
APV-16-15	15V, 0~1.00A	±5%	120mV	81%
APV-16-24	24V, 0~0.67A	±5%	150mV	83%

APV-25 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
APV-25-5	5V, 0~3.5A	±5%	120mV	75.5%
APV-25-12	12V, 0~2.1A	±5%	150mV	82.0%
APV-25-15	15V, 0~1.68A	±5%	150mV	83.0%
APV-25-24	24V, 0~1.05A	±5%	150mV	83.0%
APV-25-36	36V, 0~0.7A	±5%	150mV	84.0%

APV-35 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
APV-35-5	5V, 0~5A	±5%	120mV	76.5%
APV-35-12	12V, 0~3A	±5%	150mV	83.0%
APV-35-15	15V, 0~2.4A	±5%	150mV	84.0%
APV-35-24	24V, 0~1.5A	±5%	180mV	84.0%
APV-35-36	36V, 0~1.0A	±5%	180mV	85.0%

APC-12 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
APC-12-350	9~36V, 350mA	±8%	300mV	82%
APC-12-700	9~18V, 700mA	±8%	250mV	80%

APC-16 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
APC-16-350	12~48V, 350mA	±8%	300mV	84%
APC-16-700	9~24V, 700mA	±8%	250mV	83%

APC-25 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
APC-25-350	25~70V, 350mA	±8%	300mV	83%
APC-25-500	15~50V, 500mA	±8%	300mV	83%
APC-25-700	11~36V, 700mA	±8%	300mV	83%
APC-25-1050	9~24V, 1050mA	±8%	300mV	83%

APC-35 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
APC-35-350	28~100V, 350mA	±8%	350mV	84%
APC-35-500	25~70V, 500mA	±8%	350mV	84%
APC-35-700	15~50V, 700mA	±8%	350mV	84%
APC-35-1050	11~33V, 1050mA	±8%	350mV	84%

LP series

18~35W Single Output LED Power Supply

Features

- LPL-18: 90~132VAC input only
LPH-18: 180~264VAC input only
LPV: 90~264VAC input
- Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature (LPH-18/LPL-18 only)
- **Constant voltage mode**
- Class 2 power unit / Pass LPS
- Isolation class II, no F.G.
- Withstand 300VAC surge input for 5 seconds (LPV-20/35)
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-based decorative/architectural lighting, LED stage and theater lighting, and LED electronic displays
- 2 years warranty

		LPL-18	LPH-18	LPV-20	LPV-35
INPUT  OUTPUT 					
	AC input voltage range		90~132VAC	180~264VAC	90~264VAC
	AC inrush current (max.)		Cold start, 40A at 115VAC	Cold start, 50A at 230VAC	Cold start, 70A at 230VAC
Overload Protection	Range	>105%		110%~150%	
	Type	Hiccup mode, auto-recovery			
Over voltage protection		115%~135% rated output voltage			
Withstand voltage		I/P-O/P: 3kVAC			
Working temperature		-30~+70°C			-30~+65°C
Vibration		10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes			
Safety standards		TUV EN60950-1, EN61347-1, EN61347-2-13 approved for LPH-18		LPV-20: TUV EN60950-1, UL879, UL1310 approved LPV-35: IEC 61347-1, IEC 61347-2-13, UL1310 approved; Design refer to IEC60950-1	
EMC standards		FCC part 15 class B	EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11		
Connection	Input	UL rated,18AWGx2C (30cm)		UL rated, 18AWGx2C (60cm)	UL rated, 18AWGx2C (60cm)
	Output				UL rated, 16AWGx2C (60cm)
Dimension (LxWxH)(mm)		140x 30x 22		118x 35x 26	148x 40x 30

LPL-18 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPL-18-12	12V, 0~1.5A	±3%	120mV	80%
LPL-18-24	24V, 0~0.75A	±3%	150mV	83%
LPL-18-36	36V, 0~0.5A	±3%	200mV	84%

LPV-20 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-20-5	5V, 0~3A	±5%	80mV	77%
LPV-20-12	12V, 0~1.67A	±5%	120mV	81%
LPV-20-15	15V, 0~1.33A	±5%	120mV	83%
LPV-20-24	24V, 0~0.84A	±5%	150mV	83%

LPH-18 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPH-18-12	12V, 0~1.5A	±3%	120mV	77%
LPH-18-24	24V, 0~0.75A	±3%	150mV	82%
LPH-18-36	36V, 0~0.5A	±3%	200mV	83%

LPV-35 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-35-5	5V, 0~5A (peak 6A)	±6%	80mV	77%
LPV-35-12	12V, 0~3A	±5%	120mV	84%
LPV-35-15	15V, 0~2.4A	±5%	120mV	84%
LPV-35-24	24V, 0~1.5A	±5%	150mV	85%
LPV-35-36	36V, 0~1A	±5%	150mV	85%

LP series

60~150W Single Output LED Power Supply

Features

- LPV-60/100: 90~264VAC input
LPV-150: 180~305VAC input only
- Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature (LPV-150 only)
- **Constant voltage mode**
- Class 2 power unit / Pass LPS (LPV-60 only)
- Isolation class II, no F.G.
- Withstand 300VAC surge input for 5 seconds (LPV-60/100)
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-based decorative/architectural lighting, LED stage and theater lighting, and LED electronic displays
- 2 years warranty

		LPV-60	LPV-100	LPV-150
INPUT LPV-60/100 LPV-150 OUTPUT LPV-60/100 LPV-150				
AC input voltage range		90~264VAC; 127~370VDC		180~305VAC; 254~431VDC
AC inrush current (max.)		Cold start, 60A at 230VAC	Cold start, 75A at 230VAC	Cold start, 60A at 230VAC
Overload protection		110%~150% hiccup mode, auto-recovery		
Over voltage protection		115%~135% rated output voltage		
Withstand voltage		I/P-O/P: 3kVAC		
Working temperature		-30~+70°C	-25~+70°C	-25~+65°C
Vibration		10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes		
Safety standards		UL879 (except for LPV-60-5), UL1310 (except for LPV-60-5) approved	UL879, UL8750 approved; Design refer to IEC60950-1	
EMC standards		EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11		
Connection	Input	UL rated, 18AWGx2C (60cm)	UL rated, 18AWGx2C (30cm)	UL rated, SJTW 18AWGx2C (30cm)
	Output	UL rated, 16AWGx2C (60cm)	UL rated, 14AWGx2C (30cm)	UL rated, SJTW 14AWGx2C (30cm)
Dimension (LxWxH)(mm)		162.5x 42.5x 32	190x 52x 37	191x 63x 37.5

LPV-60 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-60-5	5V, 0~8A	±8%	80mV	76%
LPV-60-12	12V, 0~5A	±5%	120mV	83%
LPV-60-15	15V, 0~4A	±5%	120mV	83%
LPV-60-24	24V, 0~2.5A	±5%	150mV	86%
LPV-60-36	36V, 0~1.67A	±5%	150mV	86%
LPV-60-48	48V, 0~1.25A	±5%	150mV	86%

LPV-100 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPV-100-5	5V, 0~12A	±8%	80mV	80%
LPV-100-12	12V, 0~8.5A	±5%	120mV	85%
LPV-100-15	15V, 0~6.7A	±5%	120mV	87%

Model No.	Output	Tol.	R&N	Effi.
LPV-100-24	24V, 0~4.2A	±5%	150mV	88%
LPV-100-36	36V, 0~2.8A	±5%	150mV	88%
LPV-100-48	48V, 0~2.1A	±5%	150mV	89%

LPV-150 Series (C.V. mode)



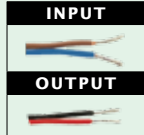
Model No.	Output	Tol.	R&N	Effi.
LPV-150-12	12V, 0~10A	±5%	200mV	87%
LPV-150-15	15V, 0~10A	±5%	200mV	88%
LPV-150-24	24V, 0~6.3A	±5%	200mV	89%
LPV-150-36	36V, 0~4.2A	±5%	200mV	89%
LPV-150-48	48V, 0~3.2A	±5%	200mV	90%

LP series

18~35W Single Output LED Power Supply

Features

- LPLC-18: 90~132VAC input only
LPHC-18: 180~264VAC input only
LPC-20/35: 90~264VAC input
- Fully encapsulated with IP67 level
- Protections: Short circuit / Over voltage /
Over temperature (except for LPC-20/35)
- **Constant current mode**
- Withstand 300VAC surge input for 5 seconds
(only for LPC-20/35)
- Class 2 power unit / Pass LPS
- Isolation class II, no F.G.
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-based decorative / architectural lighting,
LED stage and theater lighting, and LED electronic displays
- 2 years warranty

	LPLC-18	LPHC-18	LPC-20	LPC-35
INPUT				
OUTPUT				
				

AC input voltage range	90~132VAC	180~264VAC	90~264VAC	
AC inrush current (max.)	Cold start, 40A at 115VAC	Cold start, 50A at 230VAC	Cold start, 70A at 230VAC	Cold start, 55A at 230VAC
Over voltage protection	105%~135% rated output voltage			
Withstand voltage	I/P-O/P: 3kVAC			
Working temperature	-30~+70°C			
Vibration	10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes			
Safety standards	Design refer to UL1310, EN60950-1		LPC-20: UL1310, UL879, TUV EN60950-1 approved LPC-35: UL1310 approved	
EMC standards	FCC part 15 class A (LPLC-18), EN55022 class A, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11		EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11	
Connection	Input	UL rated, 18AWGx2C (30cm)		UL rated, 18AWGx2C (60cm)
	Output			UL rated, 16AWGx2C (60cm)
Dimension (LxWxH)(mm)	140x 30x 22		118x 35x 26	148x 40x 30

LPLC-18 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
LPLC-18-350	6~48V, 350mA	±8%	300mV	82%
LPLC-18-700	6~25V, 700mA	±8%	250mV	80%

LPC-20 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
LPC-20-350	9~48V, 350mA	±5%	200mV	83%
LPC-20-700	9~30V, 700mA	±5%	200mV	83%

LPHC-18 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
LPHC-18-350	6~48V, 350mA	±8%	300mV	80%
LPHC-18-700	6~25V, 700mA	±8%	250mV	80%

LPC-35 Series (C.C. mode)



Model No.	Output	Io Tol.	R&N	Effi.
LPC-35-700	9~48V, 700mA	±5%	200mV	85%
LPC-35-1050	9~30V, 1050mA	±5%	200mV	85%
LPC-35-1400	9~24V, 1400mA	±5%	200mV	85%

LP series

60~150W Single Output LED Power Supply

► Features

- LPC-60/100: 90~264VAC input
LPC-150: 180~305VAC input only
- High efficiency up to 90%
- Fully encapsulated with IP67 level
- Protections: Short circuit / Over voltage /
Over temperature (LPC-150 only)
- Constant current mode
- Isolation class II, no F.G.
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED-based decorative / architectural lighting,
LED stage and theater lighting, and LED electronic displays
- 2 years warranty

		LPC-60	LPC-100	LPC-150
INPUT 60W / 100W150W OUTPUT 60W / 100W150W			 Under Development	 NEW
AC input voltage range		90~264VAC; 127~370VDC		180~305VAC; 254~431VDC
AC inrush current (max.)		Cold start, 60A at 230VAC	Cold start, 65A at 230VAC	Cold start, 40A at 230VAC
Over voltage protection		105%~135%	110%~135%	
Withstand voltage		I/P-O/P: 3kVAC		
Working temperature		-30~+70℃	-25~+50℃	-40~+70℃
Vibration		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
Safety standards		UL1310 approved	Design refer to IEC60950-1	EN60950-1(LVD) approved
EMC standards		EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11		
Connection	Input	UL rated, 18AWG x2C (60cm)	UL rated, 18AWG x2C (30cm)	UL rated, SJTW 18AWGx2C(30cm)
	Output	UL rated, 16AWG x2C (60cm)	UL rated, 18AWG x2C (30cm)	UL rated, SJTW 18AWG x2C(30cm)
Dimension (LxWxH)(mm)		162.5x 42.5x 32	190x 52x 37	191x 63x 37.5

LPC-60 Series (C.C. mode) (for 1050mA & 1400mA) US (for 1750mA)

Model No.	Output	Io Tol.	R&N	Effi.
LPC-60-1050	9~48V, 1050mA	±5%	200mV	87%
LPC-60-1400	9~42V, 1400mA	±5%	200mV	85%
LPC-60-1750	9~34V, 1750mA	±5%	200mV	87%

LPC-100 Series (C.C. mode)

Model No.	Output	Io Tol.	R&N	Effi.
LPC-100-350	143~286V, 350mA	±5%	1.5V	90%
LPC-100-500	100~200V, 500mA	±5%	1.5V	90%
LPC-100-700	72~143V, 700mA	±5%	1.0V	90%
LPC-100-1050	48~96V, 1050mA	±5%	1.0V	90%
LPC-100-1400	36~72V, 1400mA	±5%	1.0V	89.5%
LPC-100-1750	29~58V, 1750mA	±5%	1.0V	89.5%
LPC-100-2100	24~48V, 2100mA	±5%	1.0V	89%

LPC-150 Series (C.C. mode)

Model No.	Output	Io Tol.	R&N	Effi.
LPC-150-350	215~430V, 350mA	±5%	2.0V	90%
LPC-150-500	150~300V, 500mA	±5%	1.5V	90%
LPC-150-700	107~215V, 700mA	±5%	1.0V	90%
LPC-150-1050	74~148V, 1050mA	±5%	1.0V	90%
LPC-150-1400	54~108V, 1400mA	±5%	1.0V	90%
LPC-150-1750	43~86V, 1750mA	±5%	1.0V	90%
LPC-150-2100	36~72V, 2100mA	±5%	1.0V	90%
LPC-150-2450	31~62V, 2450mA	±5%	1.0V	90%
LPC-150-2800	27~54V, 2800mA	±5%	1.0V	90%
LPC-150-3150	24~48V, 3150mA	±5%	1.0V	90%

ELN series

30~60W Single Output LED Power Supply

Features

- Universal AC input / Full range
- Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Over current / Over voltage
- Optional dimming function: 1.1~10VDC(D type) or PWM (P type) controlled
- Class 2 power unit / Pass LPS
- Isolation class II, no F.G.
- Cooling by free air convection
- Suitable for economical LED indoor lighting and LED electronic displays
- 2 years warranty

INPUT	
OUTPUT (standard)	
OUTPUT (Dimming Function)	

ELN-30	ELN-60

AC input voltage range	90~264VAC ; 127~370VDC	
AC inrush current (max.)	Cold start, 55A at 230VAC	Cold start, 60A at 230VAC
DC adjustment range	±10% rated output voltage	
Current adjustment range	75%~103%	
Over current protection	95%~110% constant current limiting, auto-recovery	
Over voltage protection	Range	110%~150% rated output voltage
	Type	Shut down o/p voltage, re-power on to recover
Withstand voltage	I/P-O/P: 3kVAC	
Working temperature	-20~+60°C (refer to output derating curve)	
Vibration	10~500Hz, 2G 10 minutes /1 cycle, period for 60 minutes each along X, Y, Z axes	
Safety standards	UL1310 approved; Design refer to TUV EN60950-1	
EMC standards	EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11	
Connection	Input	UL rated, SVT 18AWGx2C (32cm)
	Output	Without dimming: UL rated, SVT 18AWGx2C (32cm) With dimming(optional): UL2464 18AWGx4C (32cm)
Dimension (LxWxH)(mm)	145x 47x 30	
Packing	0.26kg ; 60pcs / 16.6kg	
	181x 61.5x 35	
	0.4kg ; 24pcs / 11.0kg	

ELN-30 Series



Model No.	Output	Tol.	R&N	Effi.
ELN-30-5	5V, 0~5.0A	±5%	80mV	75%
ELN-30-9	9V, 0~3.4A	±5%	100mV	80%
ELN-30-12	12V, 0~2.5A	±5%	120mV	82%
ELN-30-15	15V, 0~2.0A	±5%	120mV	82%
ELN-30-24	24V, 0~1.25A	±5%	150mV	85%
ELN-30-27	27V, 0~1.12A	±5%	150mV	85%
ELN-30-48	48V, 0~0.63A	±5%	250mV	87%

ELN-60 Series



Model No.	Output	Tol.	R&N	Effi.
ELN-60-9	9V, 0~5.0A	±5%	120mV	82%
ELN-60-12	12V, 0~5.0A	±5%	120mV	85%
ELN-60-15	15V, 0~4.0A	±5%	150mV	86%
ELN-60-24	24V, 0~2.5A	±5%	150mV	87%
ELN-60-27	27V, 0~2.3A	±5%	200mV	87%
ELN-60-48	48V, 0~1.3A	±5%	250mV	88%

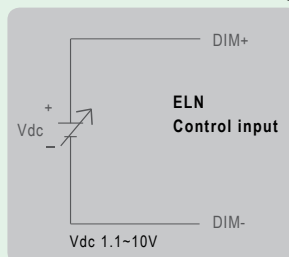
Dimming Control (optional)

Through the dimming function, output current of ELN series can be adjusted to reduce the energy consumption or adjust the brightness of LEDs connecting to it. Two kinds of control signal are accepted: 1.1~10VDC (D-Type option) or PWM signal (P-Type option).

When there is no signal sending to the control wires (open circuit between the two control wires), the power supply will operate as 0V (D-Type) or 0% duty (P-Type) of input signal and the output current will be zero.

D Type :

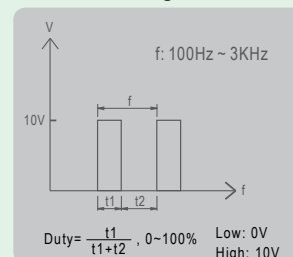
1.1~10Vdc external control signal



Order No.: ELN-30-5D

P Type :

PWM control signal



Order No.: ELN-30-5P

GSC series

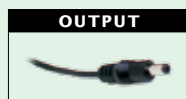
18~40W External Power with PFC

Features

- Universal AC input (up to 277VAC) / Full range
- Built-in active PFC function
- Protection: Short circuit
- Fully isolated plastic case
- Constant current mode
- No load power consumption <0.15W
- IP30 design
- Isolation class II, no F.G.
- Cooling by free air convection
- 2 pole EURO plug or IEC320-C8
- Low cost, high reliability
- Suitable for indoor LED lighting applications
- 3 years warranty

GSC18B/25B/40B

GSC18E/25E/40E



OUTPUT



Under Development

AC input voltage range	90~277VAC		
AC inrush current (max.)	Cold start, 15A at 230VAC		
Setup time	500ms at full load and 230VAC		
Short circuit protection	Hiccup mode, auto-recovery		
Withstand voltage	I/P-O/P: 3.75kVAC		
Working temperature	-30~+50°C (refer to output derating curve)		
Safety standards	Design refer to ENEC EN61347-1, EN61347-2-13, EN62384		
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
Connection	Input	B-Type	IEC320-C8
		E-Type	European 2P
	Output	Plug	2.1φ x 5.5φ x 11mm, center+
		Cable	UL rated, UL1185 18AWG (180cm)
Dimension (LxWxH)(mm)	79x54x33		

GSC18 Series



ENEC/CB/CE pending

Model No.	Output	Io Tol.	R&N	Effi.
GSC18□-350	26~52V, 350mA	±8%	4.6V	88%
GSC18□-500	18~36V, 500mA	±8%	3.0V	87%
GSC18□-700	13~26V, 700mA	±8%	2.5V	86%
GSC18□-1050	8~17V, 1050mA	±8%	1.5V	85%
GSC18□-1400	6~13V, 1400mA	±8%	1.0V	84%

□ = B / E ; B: IEC320-C8, E: European 2P

GSC25 Series



ENEC/CB/CE pending

Model No.	Output	Io Tol.	R&N	Effi.
GSC25□-350	36~72V, 350mA	±8%	7.2V	88%
GSC25□-500	26~52V, 500mA	±8%	5.0V	87%
GSC25□-700	18~36V, 700mA	±8%	3.6V	86%

Model No.	Output	Io Tol.	R&N	Effi.
GSC25□-1050	12~24V, 1050mA	±8%	2.4V	85%
GSC25□-1400	9~18V, 1400mA	±8%	1.8V	84%

□ = B / E ; B: IEC320-C8, E: European 2P

GSC40 Series



ENEC/CB/CE pending

Model No.	Output	Io Tol.	R&N	Effi.
GSC40□-350	50~100V, 350mA	±8%	11.6V	88%
GSC40□-500	40~80V, 500mA	±8%	8.0V	87%
GSC40□-700	29~58V, 700mA	±8%	5.8V	86%
GSC40□-1050	19~38V, 1050mA	±8%	3.8V	85%
GSC40□-1400	14~28V, 1400mA	±8%	2.9V	84%

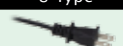
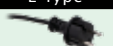
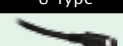
□ = B / E ; B: IEC320-C8, E: European 2P

OWA series

60~120W External Power

Features

- Universal AC input / Full range
- Built-in active PFC function (OWA-90/120)
- High efficiency up to 91%
- No load power consumption <0.15W
- NRCan (Level V) / EISA 2007 (Level VI) for U-Type
- ErP step 2 (Level V) for E-Type
- Protections: Short circuit / Over current / Over voltage / Over temp.
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level for main body
- Isolation class II, no F.G.
- Class 2 power unit (OWA-60 & OWA-90-20~54)
- Suitable for dry and damp location
- Suitable for LED lighting applications
- Optional IP44 AC plug for E-Type
- 5 years warranty

INPUT	
OWA-60/90/120	
U-Type	E-Type
	
OUTPUT	
OWA-60	
U-Type	E-Type
	
OWA-90/120	
U-Type	E-Type
	



AC input voltage range			90~264VAC ; 127~370VDC		
AC inrush current (max.)			Cold start, 55A at 230VAC	Cold start, 60A at 230VAC	
Over current protection			95%~108% constant current limiting, auto-recovery		
Over voltage protection			110%~140% rated output voltage		
Over temp. protection			Shut down output voltage, re-power on to recover		
Setup, rise, hold up time			500ms, 80ms, 16ms at full load and 230VAC		
Withstand voltage			I/P-O/P: 3.75KVAC		
Working temperature			-40~+70°C (refer to output derating curve)		
Safety standards			U-Type: UL8750 listed approved (OWA-60/120 pending)		
			E-Type: EN61558-1, EN61558-2-16 listed; EN60335-1 listed (except for OWA-90E-42~54) approved (OWA-60/120 pending)		
EMC standards			U-Type: FCC Part 15; E-Type: EN55022 class B, EN55014-1, EN61000-3-2,-3 (OWA-60/120 pending)		
Connection	Input	Plug	U-Type: NEMA 1-15P plug; E-Type: Schuko EU plug		
		Cable	U-Type: UL rated, SVT 18AWGx2C (150cm); E-Type: H05RN-F 1.0mm² x2C (150cm)		
	Output	Plug	2.1φ x 5.5φ x 11mm / C+		U-Type: Power DIN 4P with lock type; E-Type: XLR 4P, male type
		Cable	U-Type : UL1185 16AWG x 2C (30cm); E-Type : H05RN-F 1.0mm² x 2C (30cm)	U-Type: UL2464 18AWGx4C (30cm); E-Type: H05RN-F 1.0mm² x2C (30cm)	U-Type: UL2464 18AWGx4C (30cm); E-Type: H07RN-F 1.5mm² x2C (30cm)
Dimension (LxWxH)(mm)			130× 53× 35		171× 63× 37.5
					191× 63× 37.5

OWA-60 Series

UL/CUL/TUV/FCC/CE pending

Model No.	Output	Tol.	R&N	Effi.
OWA-60□-12	12V, 0~5A	±4.0%	150mV	89%
OWA-60□-15	15V, 0~4A	±4.0%	150mV	90%
OWA-60□-20	20V, 0~3A	±4.0%	150mV	90%
OWA-60□-24	24V, 0~2.5A	±3.0%	150mV	90%
OWA-60□-30	30V, 0~2A	±3.0%	200mV	90%
OWA-60□-36	36V, 0~1.67A	±2.0%	200mV	91%
OWA-60□-42	42V, 0~1.43A	±1.0%	250mV	91%
OWA-60□-48	48V, 0~1.25A	±1.0%	250mV	91%
OWA-60□-54	54V, 0~1.12A	±1.0%	350mV	91%

□ = U / E; U: American 2P, E: European 2P

OWA-90 Series

(U-Type, 42~54V) (U-Type, 12~36V) (E-Type) (U-Type) (E-Type)

Model No.	Output	Tol.	R&N	Effi.
OWA-90□-12	12V, 0~7.5A	±4.0%	150mV	89%
OWA-90□-15	15V, 0~6A	±4.0%	150mV	90%
OWA-90□-20	20V, 0~4.5A	±4.0%	150mV	90%
OWA-90□-24	24V, 0~3.75A	±3.0%	150mV	90%

Model No.	Output	Tol.	R&N	Effi.
OWA-90□-30	30V, 0~3A	±3.0%	200mV	90%
OWA-90□-36	36V, 0~2.5A	±2.0%	200mV	91%
OWA-90□-42	42V, 0~2.15A	±1.0%	250mV	91%
OWA-90□-48	48V, 0~1.88A	±1.0%	250mV	91%
OWA-90□-54	54V, 0~1.67A	±1.0%	350mV	91%

□ = U / E; U: American 2P, E: European 2P

OWA-120 Series

UL/CUL/TUV/FCC/CE pending

Model No.	Output	Tol.	R&N	Effi.
OWA-120□-12	12V, 0~10A	±4.0%	150mV	89%
OWA-120□-15	15V, 0~8A	±4.0%	150mV	89%
OWA-120□-20	20V, 0~6A	±4.0%	150mV	89%
OWA-120□-24	24V, 0~5A	±4.0%	150mV	90%
OWA-120□-30	30V, 0~4A	±3.0%	200mV	90%
OWA-120□-36	36V, 0~3.4A	±2.0%	200mV	90%
OWA-120□-42	42V, 0~2.9A	±1.0%	200mV	90%
OWA-120□-48	48V, 0~2.5A	±1.0%	250mV	91%
OWA-120□-54	54V, 0~2.3A	±1.0%	350mV	91%

□ = U / E; U: American 2P, E: European 2P

PCD series

16~60W Constant Current with AC Dimmable

Features

- AC phase-cut dimming, work with leading edge and trailing edge TRIAC dimmers
- PCD-16/25: 115VAC or 230VAC input
PCD-40/60: 230VAC input only
- Built-in active PFC function
- Fully isolated plastic case
- Constant current mode
- IP30 design
- Class 2 power unit / Pass LPS (PCD-16/25)
- Isolation class II, no F.G.
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- 3 years warranty

		PCD-16/25	PCD-40/60
INPUT (A type)			
	INPUT (B type)		
OUTPUT			
AC input voltage range		115VAC (90~135VAC) or 230VAC (180~295VAC)	230VAC (180~295VAC)
AC inrush current (max.)		Cold start, 10A at 230VAC	PCD-40: Cold start, 11A at 230VAC PCD-60: Cold start, 13A at 230VAC
Setup time		500ms at full load and 230VAC	
Withstand voltage		I/P - O/P: 3.75kVAC	
Working temperature		-30~+60°C (refer to output derating curve)	PCD-40: -30~+50°C ; PCD-60: -30~+45°C
Safety standards		UL8750 (PCD-16/25 only), ENEC EN61347-1, EN61347-2-13, EN62384 (B-Type only) approved	
EMC standards		A-Type: FCC part 18 non-consumer equipment B-Type: EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
Connection	Input	PCD-16/25 A-Type: UL1430 18AWGx2C (7.5cm); PCD-16/25 B-Type: NISPT-1 18AWGx2C (7.5cm); PCD-40/60: H03VVH2-F 0.75mm² x2C (7.5cm)	
	Output	UL1430 18AWGx2C (15cm)	
Dimension (LxWxH)(mm)		84x 57x 29.5	128x 60x 31.5

PCD-16 Series

Model No.	Output	Io Tol.	R&N	Effi.
PCD-16-350 □	24~48V, 350mA	±5%	4.6V	82.0%
PCD-16-700 □	16~24V, 700mA	±5%	2.7V	81.0%
PCD-16-1050 □	12~16V, 1050mA	±5%	2.2V	80.5%
PCD-16-1400 □	8~12V, 1400mA	±5%	2.0V	80.0%

□ = A or B-Type ; A-Type: 90~135VAC, B-Type: 180~295VAC

PCD-25 Series

Model No.	Output	Io Tol.	R&N	Effi.
PCD-25-350 □	40~58V, 350mA	±5%	4.6V	82.0%
PCD-25-700 □	24~36V, 700mA	±5%	2.7V	81.0%
PCD-25-1050 □	16~24V, 1050mA	±5%	2.2V	80.5%
PCD-25-1400 □	12~18V, 1400mA	±5%	2.0V	80.0%

□ = A or B-Type ; A-Type: 90~135VAC, B-Type: 180~295VAC

PCD-40 Series

Model No.	Output	Io Tol.	R&N	Effi.
PCD-40-350B	70~108V, 350mA	±5%	9.5V	87%
PCD-40-500B	45~80V, 500mA	±5%	5.0V	87%
PCD-40-700B	34~57V, 700mA	±5%	3.1V	86%
PCD-40-1050B	22~38V, 1050mA	±5%	2.6V	86%
PCD-40-1400B	17~29V, 1400mA	±5%	2.5V	85%
PCD-40-1750B	13~23V, 1750mA	±5%	2.4V	85%

PCD-60 Series

Model No.	Output	Io Tol.	R&N	Effi.
PCD-60-500B	70~108V, 500mA	±5%	10.2V	87%
PCD-60-700B	50~86V, 700mA	±5%	5.6V	86%
PCD-60-1050B	34~57V, 1050mA	±5%	3.8V	86%
PCD-60-1400B	25~43V, 1400mA	±5%	3.4V	85%
PCD-60-1750B	20~34V, 1750mA	±5%	3.3V	85%
PCD-60-2000B	18~30V, 2000mA	±5%	2.4V	85%
PCD-60-2400B	15~25V, 2400mA	±5%	2.4V	84%

Dimmer Compatibility Chart

Manufacturer	Dimmer Model	
LUTRON	SKYLARK SF-12P-277	(277VAC / 60Hz)
LUTRON	DVF-103P-277	(277VAC / 60Hz)
LUTRON	SKYLARK SF-10P	(120VAC / 60Hz)
LUTRON	SKYLARK S-600P	(120VAC / 60Hz)
LUTRON	SKYLARK DVF-103P	(120VAC / 60Hz)
LEVITON	ILLUMATECH TM Cat.No.IP106	(120VAC / 60Hz)
LEVITON	SURESLIDE TM Cat.No.6633-P	(120VAC / 60Hz)
LEVITON	SURESLIDE TM Cat. NO.6615-P	(120VAC / 60Hz)
JUNG	Licht-Management 225 T DE	(230VAC / 50Hz)
JUNG	Licht-Management 225 NV DE	(230VAC / 50Hz)
BERKER	Tronic-Drehdimmer 286710	(230-240VAC / 50Hz)
BE LICHTREGLER	T39.01	(230VAC / 50Hz)
BE LICHTREGLER	T46	(230VAC / 50Hz)
CLIPSAL	32E450UDM	(220-240VAC / 50Hz)
CLIPSAL	NO 32E450TM	(220-240VAC / 50Hz)

- ▶ Conduction angle: 30 degrees (min.) / 180 degrees (max.)
- ▶ For PCD-16/25/40/60 only

PLD series

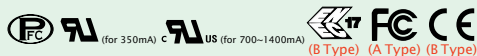
16~60W Constant Current with PFC

Features

- PLD-16: 115VAC or 230VAC input
PLD-25: 90~295VAC input
PLD-40/60: 230VAC input only
- Built-in active PFC function
- Fully isolated plastic case
- **Constant current mode**
- IP30 design
- Class 2 power unit / Pass LPS (PLD-16/25)
- Isolation class II, no F.G.
- Protections: Short circuit / Over temperature
- Suitable for indoor LED lighting applications
- Cooling by free air convection
- 3 years warranty

			PLD-16	PLD-25	PLD-40	PLD-60
INPUT						
A-Type	B-Type	PLD-25				
						
OUTPUT						
						
AC input voltage range			115VAC (90~135VAC) or 230VAC (180~295VAC)	90~295VAC	230VAC (180~295VAC)	
AC inrush current (max.)			Cold start, 20A at 230VAC	Cold start, 25A at 230VAC		
Setup time			500ms at full load and 230VAC			
Withstand voltage			I/P - O/P: 3.75kVAC			
Short circuit protection			Hiccup mode, auto-recovery			
Over temp. protection			Shut down o/p voltage, re-power on to recover		Shut down o/p voltage, auto-recovery	
Working temperature			-30~+50°C	-30~+60°C	-30~+50°C	-30~+45°C
Safety standards			UL8750 (PLD-16/25 only), ENEC EN61347-1, EN61347-2-13, EN62384 (except for A-Type) approved			
EMC standards			A-Type & PLD-25: FCC part 18 non-consumer equipment B-Type & PLD-25: EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4,2,3,4,5,6,8,11, EN61547			
Connection	Input	PLD-16 A-Type: UL1430 18AWGx2C (7.5cm) PLD-16 B-Type & PLD-25: NISPT-1 18AWGx2C (7.5cm) PLD-40/60: H03VVH2-F 0.75mm ² x2C (7.5cm)				
	Output	UL1430 18AWGx2C (15cm)				
Dimension (LxWxH)(mm)			84x 57x 29.5		128x 60x 31.5	

PLD-16 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLD-16-350 □	24~48V, 350mA	±5%	4.6V	84.5%
PLD-16-700 □	16~24V, 700mA	±5%	2.7V	84.5%
PLD-16-1050 □	12~16V, 1050mA	±5%	2.2V	84.0%
PLD-16-1400 □	8~12V, 1400mA	±5%	2.0V	82.5%

□ = A or B-Type ; A-Type: 90~135VAC, B-Type: 180~295VAC

PLD-40 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLD-40-350B	70~108V, 350mA	±5%	9.5V	88%
PLD-40-500B	45~80V, 500mA	±5%	5.0V	88%
PLD-40-700B	34~57V, 700mA	±5%	3.1V	87%
PLD-40-1050B	22~38V, 1050mA	±5%	2.6V	87%
PLD-40-1400B	17~29V, 1400mA	±5%	2.5V	86%
PLD-40-1750B	13~23V, 1750mA	±5%	2.4V	86%

PLD-25 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLD-25-350	36~58V, 350mA	±5%	4.6V	85%
PLD-25-700	24~36V, 700mA	±5%	2.7V	86%
PLD-25-1050	16~24V, 1050mA	±5%	2.2V	85%
PLD-25-1400	12~18V, 1400mA	±5%	2.0V	84%

PLD-60 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLD-60-500B	70~108V, 500mA	±5%	10.2V	88%
PLD-60-700B	50~86V, 700mA	±5%	5.6V	87%
PLD-60-1050B	34~57V, 1050mA	±5%	3.8V	87%
PLD-60-1400B	25~43V, 1400mA	±5%	3.4V	86%
PLD-60-1750B	20~34V, 1750mA	±5%	3.3V	86%
PLD-60-2000B	18~30V, 2000mA	±5%	2.4V	86%
PLD-60-2400B	15~25V, 2400mA	±5%	2.4V	85%

PLM series

12~40W Constant Current with PFC

Features

- 110~295VAC input
- Built-in active PFC function
- Protections: Short circuit / Over temperature (PLM-40)
- Fully isolated plastic case
- **Constant current mode**
- **No load power consumption <0.5W**
- Three-step analog dimming function (PLM-40)
- IP30 design
- Isolation class II, no F.G.
- Class 2 power unit (except for PLM-25-350 & PLM-40)
- Cooling by free air convection
- Low cost, high reliability
- Suitable for indoor LED lighting applications
- 2 years warranty

		PLM-12	PLM-25	PLM-40
				
INPUT	OUTPUT			
				
AC input voltage range		110~295VAC; 156~417VDC		
AC inrush current (max.)		Cold start, 15A at 230VAC		
Setup time		500ms at full load and 230VAC		
Short circuit protection		Hiccup mode, auto-recovery		
Over temperature (PLM-40)		Hiccup mode, auto-recovery		
Withstand voltage		I/P-O/P: 3.75kVAC		
Working temperature		-30~+50°C	-30~+45°C (refer to output derating curve)	
Safety standards		UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved		
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
Connection (Input / Output)		2+2P push terminal block		
Dimension (LxWxH)(mm)		145x 38x 22		175x 42x 24

PLM-12 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLM-12-350	22~36V, 350mA	±5%	3.6V	85%
PLM-12-500	15~24V, 500mA	±5%	2.4V	84%
PLM-12-700	11~18V, 700mA	±5%	2.4V	83%
PLM-12-1050	7~12V, 1050mA	±5%	1.8V	81%

PLM-25 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLM-25-350	42~72V, 350mA	±5%	7.2V	87%
PLM-25-500	30~50V, 500mA	±5%	5.0V	86%
PLM-25-700	21~36V, 700mA	±5%	3.6V	86%
PLM-25-1050	14~24V, 1050mA	±5%	2.4V	85%

PLM-40 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLM-40-350	53~105V, 350mA	±5%	10V	88%
PLM-40-500	40~80V, 500mA	±5%	8.0V	88%
PLM-40-700	29~57V, 700mA	±5%	6.0V	87%
PLM-40-1050	19~38V, 1050mA	±5%	4.0V	87%
PLM-40-1400	15~29V, 1400mA	±5%	3.0V	86%
PLM-40-1750	12~23V, 1750mA	±5%	2.5V	86%

LPF series

16~90W Single Output with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- Fully isolated plastic case
- Isolation class II, no F.G.
- Class 2 power unit
- Built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance) for D type
- Fully encapsulated with IP67 level [optional for LPF-16(D)]
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- Suitable for dry, damp, and wet location
- 5 years warranty

		LPF-16(D)/25(D)	LPF-40(D)/60(D)	LPF-90(D)
INPUT OUTPUT (Non-Dimming Models) OUTPUT (Dimming Models)				
				
				
AC input voltage range		90~305VAC ; 127~431VDC		
AC inrush current (max.)		LPF-16(D): Cold start, 45A LPF-25(D): Cold start, 50A	LPF-40(D): Cold start, 50A LPF-60(D): Cold start, 55A	Cold start, 55A at 230VAC
Over current protection		95% ~108% constant current, auto-recovery		
Over voltage protection		110%~150% rated output voltage		
Setup, rise, hold up time		500ms, 80ms, 16ms at full load and 230VAC		500ms, 200ms, 16ms at full load and 230VAC
Withstand voltage		I/P - O/P: 3.75kVAC		
Working temperature		-35~+70°C	-40~+70°C (refer to output derating curve)	
Safety standards		UL8750, ENEC EN61347-1, EN61347-2-13, EN62384, PSE J61347-1, J61347-2-13 approved; TUV EN61347-1, EN61347-2-13 approved for LPF-40(D)/60(D)/90(D)		
EMC standards		EN55015, EN61547, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11		
Connection	Input	UL rated, SJTW 18AWGx2C (30cm)		
	Output	LPF-16/25: UL rated, SVT 18AWGx2C (30cm) LPF-16D/25D: UL rated, SJTW 18AWGx4C (30cm)	LPF-40/60: UL rated, SVT 18AWGx2C (30cm) LPF-40D/60D: UL2464 18AWGx2C(30cm)+22AWGx2C (30cm)	LPF-90: UL rated, SVT 18AWGx2C (30cm) LPF-90D: UL2464 18AWGx4C (30cm)
Dimension (LxWxH)(mm)		148x 40x 32	162.5x 43x 32	161x 61x 36

LPF-16 Series



Model No.	Output	Tol.	R&N	Effi.
LPF-16-12	12V, 0~1.34A	±4.0%	150mV	83.0%
LPF-16-15	15V, 0~1.07A	±4.0%	150mV	83.0%
LPF-16-20	20V, 0~0.80A	±4.0%	150mV	84.5%
LPF-16-24	24V, 0~0.67A	±4.0%	150mV	84.5%
LPF-16-30	30V, 0~0.54A	±4.0%	200mV	84.5%
LPF-16-36	36V, 0~0.45A	±4.0%	250mV	85.0%
LPF-16-42	42V, 0~0.39A	±4.0%	250mV	85.0%
LPF-16-48	48V, 0~0.34A	±4.0%	250mV	85.0%
LPF-16-54	54V, 0~0.30A	±4.0%	350mV	84.5%

LPF-25 Series



Model No.	Output	Tol.	R&N	Effi.
LPF-25-12	12V, 0~2.10A	±4.0%	150mV	84.0%
LPF-25-15	15V, 0~1.67A	±4.0%	150mV	84.0%
LPF-25-20	20V, 0~1.25A	±4.0%	150mV	85.0%
LPF-25-24	24V, 0~1.05A	±4.0%	150mV	85.5%
LPF-25-30	30V, 0~0.84A	±4.0%	200mV	85.5%
LPF-25-36	36V, 0~0.70A	±4.0%	250mV	85.5%
LPF-25-42	42V, 0~0.60A	±4.0%	250mV	85.5%
LPF-25-48	48V, 0~0.53A	±4.0%	250mV	86.0%
LPF-25-54	54V, 0~0.47A	±4.0%	350mV	86.0%

LPF-40 Series



Model No.	Output	Tol.	R&N	Effi.
LPF-40-12	12V, 0~3.34A	±4.0%	150mV	84.0%
LPF-40-15	15V, 0~2.67A	±4.0%	150mV	85.0%
LPF-40-20	20V, 0~2.00A	±4.0%	150mV	86.0%

Model No.	Output	Tol.	R&N	Effi.
LPF-40-24	24V, 0~1.67A	±4.0%	150mV	87.0%
LPF-40-30	30V, 0~1.34A	±4.0%	200mV	88.0%
LPF-40-36	36V, 0~1.12A	±4.0%	250mV	88.0%
LPF-40-42	42V, 0~0.96A	±4.0%	250mV	88.5%
LPF-40-48	48V, 0~0.84A	±4.0%	250mV	89.0%
LPF-40-54	54V, 0~0.76A	±4.0%	350mV	89.0%

LPF-60 Series



Model No.	Output	Tol.	R&N	Effi.
LPF-60-12	12V, 0~5.00A	±4.0%	150mV	86%
LPF-60-15	15V, 0~4.00A	±4.0%	150mV	87%
LPF-60-20	20V, 0~3.00A	±4.0%	150mV	88%
LPF-60-24	24V, 0~2.50A	±4.0%	150mV	89%
LPF-60-30	30V, 0~2.00A	±4.0%	200mV	90%
LPF-60-36	36V, 0~1.67A	±4.0%	250mV	90%
LPF-60-42	42V, 0~1.43A	±4.0%	250mV	90%
LPF-60-48	48V, 0~1.25A	±4.0%	250mV	90%
LPF-60-54	54V, 0~1.12A	±4.0%	350mV	90%

LPF-90 Series



Model No.	Output	Tol.	R&N	Effi.
LPF-90-15	15V, 0~5.00A	±4.0%	150mV	89.0%
LPF-90-20	20V, 0~4.50A	±4.0%	150mV	89.5%
LPF-90-24	24V, 0~3.75A	±4.0%	150mV	90.0%
LPF-90-30	30V, 0~3.00A	±4.0%	200mV	90.5%
LPF-90-36	36V, 0~2.50A	±4.0%	200mV	90.5%
LPF-90-42	42V, 0~2.15A	±4.0%	200mV	90.5%
LPF-90-48	48V, 0~1.88A	±4.0%	200mV	90.5%
LPF-90-54	54V, 0~1.67A	±4.0%	200mV	90.5%

□ = Blank, D ; Blank: without dimming function , D: with dimming function

NPF series

40~120W Single Output with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Built-in active PFC function
- High efficiency up to 91%
- No load power consumption <0.15W (<0.5W for D-Type)
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case with IP67 level
- Class 2 power unit [except for NPF-90(D)-12/15 & NPF-120(D)]
- Isolation class II, no F.G.
- Built-in 3 in 1 dimming function (0~10VDC, PWM signal or resistance) for D type
- Suitable for dry, damp, and wet location
- 5 years warranty

		NPF-40(D)/60(D)	NPF-90(D)	NPF-120(D)
INPUT OUTPUT	OUTPUT (NPF-40D/60D)			
	OUTPUT (NPF-40/60/90/120)			

AC input voltage range		90~305VAC; 127~431VDC		
AC inrush current (max.)		Cold start, 50A at 230VAC		Cold start, 60A at 230VAC
Over current protection		95%~108% constant current limiting, auto-recovery		
Over voltage protection		110%~140% rated output voltage		
Over temp. protection		Shut down output voltage, re-power on to recover		
Setup, rise, hold up time		500ms, 80ms, 16ms at full load and 230VAC		
Withstand voltage		I/P-O/P: 3.75kVAC		
Working temperature		-40~+70°C (refer to output dearting curve)		
Safety standards		UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved [NPF-40(D)/60(D)/120(D)/pending]; Design refer to EN60335-1		
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, [NPF-40(D)/60(D)/120(D)/pending]		
Connection	Input	UL rated, SJTW 18AWGx2C (30cm)		
	Output	NPF-40/60: SVT 18AWGx 2C (30cm) NPF-40D/60D: UL2464 18AWG x2C (30cm)+ 22AWG x2C (30cm)	NPF-90: SJTW 16AWGx2C (30cm) NPF-90D: SJTW 16AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)	NPF-120: SJTW 14AWGx2C (30cm) NPF-120D: SJTW 14AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)
Dimension (LxWxH) (mm)		150x 53x 35	171x 63x 37.5	191x 63x 37.5

NPF-40 Series



UL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	R&N	Effi.
NPF-40□-12	12V, 0~3.34A	±4%	150mV	86.0%
NPF-40□-15	15V, 0~2.67A	±4%	150mV	87.0%
NPF-40□-20	20V, 0~2A	±4%	150mV	88.0%
NPF-40□-24	24V, 0~1.67A	±3%	150mV	89.0%
NPF-40□-30	30V, 0~1.34A	±3%	200mV	90.0%
NPF-40□-36	36V, 0~1.12A	±2%	200mV	90.0%
NPF-40□-42	42V, 0~0.96A	±1%	200mV	90.0%
NPF-40□-48	48V, 0~0.84A	±1%	200mV	90.0%
NPF-40□-54	54V, 0~0.76A	±1%	350mV	90.0%

NPF-60 Series



UL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	R&N	Effi.
NPF-60□-12	12V, 0~5A	±4%	150mV	86.0%
NPF-60□-15	15V, 0~4A	±4%	150mV	87.0%
NPF-60□-20	20V, 0~3A	±4%	150mV	88.0%
NPF-60□-24	24V, 0~2.5A	±3%	150mV	89.0%
NPF-60□-30	30V, 0~2A	±3%	200mV	90.0%
NPF-60□-36	36V, 0~1.67A	±2%	200mV	90.0%
NPF-60□-42	42V, 0~1.43A	±1%	200mV	90.0%
NPF-60□-48	48V, 0~1.25A	±1%	200mV	90.0%
NPF-60□-54	54V, 0~1.12A	±1%	350mV	90.0%

NPF-90 Series



UL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	R&N	Effi.
NPF-90□-12	12V, 0~7.5A	±4%	150mV	89.0%
NPF-90□-15	15V, 0~6A	±4%	150mV	89.5%
NPF-90□-20	20V, 0~4.5A	±4%	150mV	90.5%
NPF-90□-24	24V, 0~3.75A	±3%	150mV	91.0%
NPF-90□-30	30V, 0~3A	±3%	200mV	89.5%
NPF-90□-36	36V, 0~2.5A	±2%	200mV	90.5%
NPF-90□-42	42V, 0~2.15A	±1%	250mV	90.5%
NPF-90□-48	48V, 0~1.88A	±1%	250mV	90.5%
NPF-90□-54	54V, 0~1.67A	±1%	350mV	90.5%

NPF-120 Series



UL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	R&N	Effi.
NPF-120□-12	12V, 0~10A	±4%	150mV	89.0%
NPF-120□-15	15V, 0~8A	±4%	150mV	89.0%
NPF-120□-20	20V, 0~6A	±4%	150mV	89.0%
NPF-120□-24	24V, 0~5A	±4%	150mV	90.0%
NPF-120□-30	30V, 0~4A	±3%	200mV	90.0%
NPF-120□-36	36V, 0~3.4A	±2%	200mV	90.0%
NPF-120□-42	42V, 0~2.9A	±1%	250mV	90.0%
NPF-120□-48	48V, 0~2.5A	±1%	250mV	91.0%
NPF-120□-54	54V, 0~2.3A	±1%	350mV	91.0%

□ = Blank, D ; Blank: without dimming function , D: with dimming function

PWM series

40~120W PWM Output with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- **Constant voltage PWM style output**
- Built-in active PFC function
- High efficiency up to 91%
- **No load power consumption <0.5W**
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level
- Class 2 power unit (except for PWM-90-12 & PWM-120)
- Isolation class II, no F.G.
- **Built-in 2 in 1 dimming function (0~10VDC or PWM signal)**
- Suitable for dry, damp, and wet location
- Suitable for LED strip lighting
- **5 years warranty**

		PWM-40/60	PWM-90	PWM-120
INPUT  OUTPUT (PWM-40/60)  OUTPUT (PWM-90/120) 				
AC input voltage range		90~305VAC; 127~431VDC		
AC inrush current (max.)		Cold start, 50A at 230VAC		Cold start, 60A at 230VAC
Overload protection		108%~120% hiccup mode, auto-recovery		
Over voltage protection		113%~142% rated output voltage		
Over temp. protection		Shut down output voltage, re-power on to recover		
Setup, rise, hold up time		500ms, 80ms, 16ms at full load and 230VAC		
Withstand voltage		I/P-O/P: 3.75kVAC		
Working temperature		-40~+70°C (refer to output dearting curve)		
Safety standards		UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved (PWM-40/60/120 pending); Design refer to EN60335-1		
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547 (PWM-40/60/120 pending)		
Connection	Input	UL rated, SJTW 18AWGx2C (30cm)		
	Output	UL2464 18AWG x2C (30cm)+ 22AWG x2C (30cm)	SJTW 16AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)	SJTW 14AWGx2C (30cm)+ UL2464 18AWGx2C (30cm)
Dimension (LxWxH) (mm)		150x 53x 35	171x 63x 37.5	191x 63x 37.5

PWM-40 Series



UL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	Effi.
PWM-40-12	12V, 0~3.34A	±4%	86.0%
PWM-40-24	24V, 0~1.67A	±3%	89.0%
PWM-40-36	36V, 0~1.12A	±2%	90.0%
PWM-40-48	48V, 0~0.84A	±1%	90.0%

PWM-90 Series



Model No.	Output	Tol.	Effi.
PWM-90-12	12V, 0~7.5A	±4%	88.0%
PWM-90-24	24V, 0~3.75A	±3%	90.5%
PWM-90-36	36V, 0~2.5A	±2%	90.5%
PWM-90-48	48V, 0~1.88A	±1%	90.5%

PWM-60 Series



UL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	Effi.
PWM-60-12	12V, 0~5A	±4%	86.0%
PWM-60-24	24V, 0~2.5A	±3%	89.0%
PWM-60-36	36V, 0~1.67A	±2%	90.0%
PWM-60-48	48V, 0~1.25A	±1%	90.0%

PWM-120 Series



UL/CUL/ENEC/CB/CE pending

Model No.	Output	Tol.	Effi.
PWM-120-12	12V, 0~10A	±4%	89.0%
PWM-120-24	24V, 0~5A	±4%	90.0%
PWM-120-36	36V, 0~3.4A	±2%	90.0%
PWM-120-48	48V, 0~2.5A	±1%	91.0%

PLC series

30~96W Single Output with PFC

Features

- Universal AC input / Full range
- Fully isolated plastic case with screw terminal style of I/O
- Adjustable output voltage and current level
- Built-in active PFC function
- High efficiency up to 89%
- Class 2 power unit / Pass LPS
- Isolation class II, no F.G. for PLC-30
- Cooling by free air convection
- Protections: Short circuit / Over current / Over voltage / Over temperature
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- 2 years warranty

		PLC-30	PLC-45/60	PLC-100
INPUT OUTPUT				
AC input voltage range	90~264VAC ; 127~370VDC			
AC inrush current (max.)	Cold start, 35A at 230VAC			Cold start, 40A at 230VAC
DC adjustment range	95%~110% rated output voltage	90%~110% rated output voltage	85%~100% rated output voltage	
Current adjustment range	75%~103%		75%~100%	
Over current protection	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery	95%~102% constant current limiting, auto-recovery	
Over voltage protection	110%~155% rated output voltage	115%~140% rated output voltage	107%~135% rated output voltage	
Setup time	500ms at full load and 230VAC			
Withstand voltage	I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature	-30~+50°C (refer to output derating curve)			
Safety standards	UL1310, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; TUV EN60950-1 approved for PLC-100 only			
EMC standards	EN55015, EN55022 class B (PLC-45/60/100), EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
Connection (Input / Output)	2+2P screw terminal block	3+2P screw terminal block		
Dimension (LxWxH)(mm)	160x 46x 30	181.5x 62x 35	200.5x 69.5x 35	
Packing	0.2kg ; 70pcs / 15kg	0.41kg ; 30pcs / 13.3kg	0.52kg ; 25pcs / 14kg	

PLC-30 Series

Model No.	Output	Tol.	R&N	Effi.
PLC-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLC-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLC-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLC-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLC-30-24	24V, 0~1.25A	±10%	2.4V	84.0%
PLC-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLC-30-36	36V, 0~0.84A	±10%	3.6V	85.0%
PLC-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

PLC-60 Series

Model No.	Output	Tol.	R&N	Effi.
PLC-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLC-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLC-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLC-60-24	24V, 0~2.5A	±10%	2.4V	87.0%
PLC-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLC-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLC-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

PLC-45 Series

Model No.	Output	Tol.	R&N	Effi.
PLC-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLC-45-15	15V, 0~3.0A	±10%	2.4V	85.0%
PLC-45-20	20V, 0~2.3A	±10%	1.8V	86.5%
PLC-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLC-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLC-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLC-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

PLC-100 Series

Model No.	Output	Tol.	R&N	Effi.
PLC-100-12	12V, 0~5.0A	±3%	150mV	83.0%
PLC-100-15	15V, 0~5.0A	±3%	150mV	85.0%
PLC-100-20	20V, 0~4.8A	±3%	150mV	88.5%
PLC-100-24	24V, 0~4.0A	±3%	150mV	88.5%
PLC-100-27	27V, 0~3.55A	±3%	150mV	88.0%
PLC-100-36	36V, 0~2.65A	±2%	150mV	88.0%
PLC-100-48	48V, 0~2.0A	±2%	200mV	88.5%

PLN series

20~96W Single Output with PFC

Features

- Universal AC input (up to 295VAC) / Full range
- Fully isolated plastic case with IP64 level
- Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Class 2 power unit / Pass LPS
- Isolation class II, no F.G. for PLN-20/30
- User adjustable output voltage (except for PLN-20) and current protection level
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- 2 years warranty

		PLN-20	PLN-30	PLN-45/60	PLN-100
INPUT					
PLN-20	PLN-30	PLN-45/60/100			
OUTPUT					
PLN-20	PLN-30/45/60/100				
					
AC input voltage range		90~277VAC; 127~392VDC 90~295VAC ; 127~417VDC			
AC inrush current (max.)		Cold start, 35A at 230VAC Cold start, 40A at 230VAC			
DC adjustment range		None	95%~108% rated output voltage 85%~100% rated output voltage		
Current adjustment range		75%~100%	75%~103%		
Over current protection		95%~110% constant current limiting, auto-recovery	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery	95%~102% constant current limiting, auto-recovery
Over voltage protection		105%~142% rated output voltage	110%~155% rated output voltage	115%~140% rated output voltage	107%~135% rated output voltage
Setup time		500ms at full load and 230VAC			
Withstand voltage		I/P-O/P: 3.75kVAC		I/P-O/P: 3.75kVAC I/P-FG: 2kVAC O/P-FG: 1.5kVAC	
Working temperature		-30~+60℃		-30~+50℃ (refer to output derating curve)	
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved for PLN-20 UL879, UL1310, UL8750(PLN-45/60), TUV EN61347-1, EN61347-2-13,PSE J61347-1, J61347-2-13 approved for PLN-30/45/60 UL879, UL1310, UL8750, TUV EN61347-1, EN61347-2-13, EN60950-1, PSE J61347-1, J61347-2-13 approved for PLN-100			
EMC standards		EN55015, EN55022 class B (PLN-60/100 only), EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
Connection	Input	UL rated, UL1015 18AWGx2C (32cm)		UL rated, SVT 18AWGx3C (30cm)	UL rated, SVT 18AWGx3C (31cm)
	Output	UL rated, SVT 18AWGx2C (32cm)		UL rated, SVT 18AWGx2C (30cm)	UL rated, SVT 18AWGx2C (31cm)
Dimension (LxWxH) (mm)		148.5x 38.5x 28	145x 47x 30	181x 61.5x 35	200x 70.5x 35

PLN-20 Series



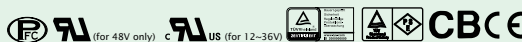
Model No.	Output	Tol.	R&N	Effi.
PLN-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLN-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLN-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLN-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLN-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

PLN-30 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLN-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLN-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLN-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLN-30-24	24V, 0~1.25A	±10%	2.6V	84.0%
PLN-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLN-30-36	36V, 0~0.84A	±10%	4.5V	85.0%
PLN-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

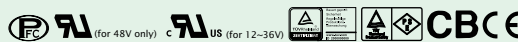
PLN-45 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLN-45-15	15V, 0~3.0A	±10%	2.4V	85.0%
PLN-45-20	20V, 0~2.3A	±10%	1.8V	86.5%

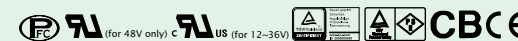
Model No.	Output	Tol.	R&N	Effi.
PLN-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLN-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLN-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLN-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

PLN-60 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLN-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLN-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLN-60-24	24V, 0~2.5A	±10%	2.7V	87.0%
PLN-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLN-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLN-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

PLN-100 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-100-12	12V, 0~5.0A	±3%	150mV	83.0%
PLN-100-15	15V, 0~5.0A	±3%	150mV	85.0%
PLN-100-20	20V, 0~4.8A	±3%	150mV	88.5%
PLN-100-24	24V, 0~4.0A	±3%	150mV	88.5%
PLN-100-27	27V, 0~3.55A	±3%	150mV	88.0%
PLN-100-36	36V, 0~2.65A	±2%	150mV	88.0%
PLN-100-48	48V, 0~2.0A	±2%	200mV	88.5%

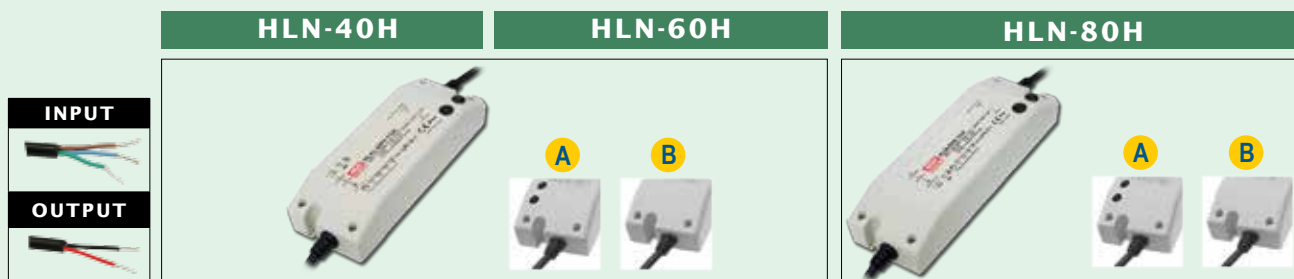
HLN series

40~80W Single Output with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Fully isolated plastic case with IP64 level
- Built-in active PFC function
- Protections:
Short circuit / Over current / Over voltage / Over temperature
- Class 2 power unit / Pass LPS
- High efficiency up to 91%
- Cooling by free air convection

- Suitable for dry, damp location
- Suitable for LED lighting and moving sign applications
- Multiple models for choice:
A-Type: IP64 rated. Output voltage and constant current level can be adjusted through internal potentiometer
B-Type: IP64 rated and **built-in 3 in 1 dimming function** (1~10VDC, PWM signal, or resistance)
- 3 years warranty



AC input voltage range		90~305VAC; 127~431VDC		
AC inrush current (max.)		Cold start, 50A at 230VAC	Cold start, 55A at 230VAC	Cold start, 70A at 230VAC
DC adjustment range		±10% rated output voltage (A-Type only)		
Current adjustment range		60%~100%		
Over current protection		95%~108% constant current limiting, auto-recovery		
Over voltage protection		109%~150% rated output voltage		
Setup, rise, hold up time		500ms, 80ms, 16ms at full load and 230VAC		
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG:1.5kVAC		
Working temperature		-40~+50°C (refer to output derating curve)		
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; Design refer to UL/EN60950-1, EN60335-1for HLN-40H/60H		
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
Connection	Input	UL rated, SVT 18AWGx3C (30cm)		
	Output	A-Type: UL rated, SVT 18AWGx2C (30cm) ; B-Type: UL rated, SVT 18AWGx4C (30cm)		
Dimension (LxWxH) (mm)		161x 61.5x 35		181x 61.5x 35

HLN-40H Series

Model No.	Output	Tol.	R&N	Effi.
HLN-40H-12(A)	12V, 0~3.33A	±2.5%	150mV	86.5%
HLN-40H-15(A)	15V, 0~2.67A	±2.0%	150mV	86.5%
HLN-40H-20(A)	20V, 0~2.00A	±1.0%	150mV	87.5%
HLN-40H-24(A)	24V, 0~1.67A	±1.0%	150mV	88.0%
HLN-40H-30(A)	30V, 0~1.34A	±1.0%	200mV	88.5%
HLN-40H-36(A)	36V, 0~1.12A	±1.0%	200mV	88.5%
HLN-40H-42(A)	42V, 0~0.96A	±1.0%	300mV	88.5%
HLN-40H-48(A)	48V, 0~0.84A	±1.0%	300mV	89.0%
HLN-40H-54(A)	54V, 0~0.75A	±1.0%	300mV	89.0%

○ = A or B

HLN-60H Series

Model No.	Output	Tol.	R&N	Effi.
HLN-60H-15(A)	15V, 0~4.0A	±2.0%	150mV	87.0%
HLN-60H-20(A)	20V, 0~3.0A	±1.0%	150mV	88.5%
HLN-60H-24(A)	24V, 0~2.5A	±1.0%	150mV	89.0%
HLN-60H-30(A)	30V, 0~2.0A	±1.0%	200mV	89.5%

Model No.	Output	Tol.	R&N	Effi.
HLN-60H-36(A)	36V, 0~1.70A	±1.0%	200mV	90.0%
HLN-60H-42(A)	42V, 0~1.45A	±1.0%	300mV	90.0%
HLN-60H-48(A)	48V, 0~1.30A	±1.0%	300mV	90.5%
HLN-60H-54(A)	54V, 0~1.15A	±1.0%	300mV	90.5%

○ = A or B

HLN-80H Series

Model No.	Output	Tol.	R&N	Effi.
HLN-80H-12(A)	12V, 0~5.0A	±2.5%	150mV	88.0%
HLN-80H-15(A)	15V, 0~5.0A	±2.0%	150mV	89.0%
HLN-80H-20(A)	20V, 0~4.0A	±1.0%	150mV	90.0%
HLN-80H-24(A)	24V, 0~3.4A	±1.0%	150mV	90.5%
HLN-80H-30(A)	30V, 0~2.7A	±1.0%	200mV	91.0%
HLN-80H-36(A)	36V, 0~2.3A	±1.0%	200mV	91.0%
HLN-80H-42(A)	42V, 0~1.95A	±1.0%	200mV	91.0%
HLN-80H-48(A)	48V, 0~1.7A	±1.0%	200mV	91.0%
HLN-80H-54(A)	54V, 0~1.5A	±1.0%	200mV	91.0%

○ = A or B

LCM series

25~60W Multiple-Stage Output Current LED Power Supply

Features

- Output current level selectable by DIP switch
- LCM-25(DA): 180~277VAC input only
LCM-40(DA)/60(DA): 180~295VAC input only
- Built-in active PFC function
- Protections: Short circuit / Over voltage (40W/60W only) / Over temp.
- Cooling by free air convection
- Fully isolated plastic case
- No load power consumption <0.5W (LCM-25/25DA/40DA/60DA)
No load power consumption <1W (LCM-40/60)
- Class II power unit, no F.G.
- Logarithm or linear dimming curve selectable (meet IEC62386-207) for DA-Type
- Built-in 0~10Vdc and PWM signal dimming function (non DA-Type)
- Built-in DALI interface and push dimming function (DA-Type)
- 12V/50mA auxiliary output for LCM-40/60 (optional for LCM-40DA/60DA)
- Temperature compensation function by external NTC (40W/60W only)
- Power supplies synchronization function up to 10 units
- Suitable for indoor LED lighting applications
- 3 years warranty

	INPUT		OUTPUT		LCM-25(DA)	LCM-40(DA) / 60(DA)
	25W/40W/60W	25W	40W/60W			
Non-DA Type				 NEW		
DA-Type						
AC input voltage range	180~277VAC; 254~392VDC				180~295VAC; 254~417VDC	
AC inrush current (Typ.)	Cold start, 20A at 230VAC					
Short circuit protection	Constant current limiting, recovers automatically after fault condition is removed					
Over voltage protection	LCM-40/40DA: 110~130VDC, LCM-60/60DA: 105~125VDC					
Over temperature protection	LCM-25(DA): Shut down o/p voltage, recovers automatically after fault condition is removed LCM-40/60(DA): Shut down o/p voltage, re-power on to recover					
Setup, rise, hold up time	500ms, 50ms, 30ms				500ms, 80ms, 16ms at full load and 230VAC	
Withstand voltage	I/P-O/P: 3.75kVAC					
Working temperature	-30~+60°C (refer to output derating curve)					
Safety standards	UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved; CQC GB19510.1, GB19510.14 for LCM-40(DA)/60(DA)					
DALI standards	Comply with IEC62386-101, 102, 207 (LCM-25DA/40DA/60DA only)					
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547; GB17743, GB17625.1 for LCM-40(DA)/60(DA)					
Dimension (LxWxH)(mm)	105x 68x 23				123.5x 81.5x 23	

LCM-25(DA) Series



Output	Io Tol.	R&N	Effi.	DIP Switch					
				1	2	3	4	5	6
350mA, 6~54V	±5%	400mV	86%	----	----	----	----	----	----
500mA, 6~50V				ON	----	----	----	----	----
600mA, 6~42V				ON	ON	----	----	----	----
700mA, 6~36V (Factory setting)				ON	ON	ON	----	----	ON
900mA, 6~28V				ON	ON	ON	ON	----	ON
1050mA, 6~24V				ON	ON	ON	ON	ON	ON

LCM-40(DA) Series



Output	Io Tol.	R&N	Effi.	DIP Switch					
				1	2	3	4	5	6
350mA, 2~100V	±5%	700mV	91%	----	----	----	----	----	----
500mA, 2~80V				ON	----	----	----	----	----
600mA, 2~67V				ON	ON	----	----	----	----
700mA, 2~57V (Factory setting)				ON	ON	ON	----	----	ON
900mA, 2~45V				ON	ON	ON	ON	----	ON
1050mA, 2~40V				ON	ON	ON	ON	ON	ON

LCM-60(DA) Series



Output	Io Tol.	R&N	Effi.	DIP Switch					
				1	2	3	4	5	6
500mA, 2~90V	±5%	700mV	92%	----	----	----	----	----	----
600mA, 2~90V				ON	----	----	----	----	----
700mA, 2~86V (Factory setting)				ON	ON	----	----	----	----
900mA, 2~67V				ON	ON	ON	----	----	ON
1050mA, 2~57V				ON	ON	ON	ON	----	ON
1400mA, 2~42V				ON	ON	ON	ON	ON	ON

- ▶ LCM-25/40/60 are primary models with 0~10Vdc and PWM signal dimming function.
- ▶ LCM-25DA/40DA/60DA have DALI interface and push dimming function.

PLP series

20~60W Single Output with PFC

Features

- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage / Over temperature (PLP-20 only)
- Built-in active PFC function
- Cooling by free air convection
- Class 2 power unit / Pass LPS
- Isolation class II, no F.G. for PLP-20
- Suitable for building in LED lighting systems
- 2 years warranty

		PLP-20	PLP-30	PLP-45/60
				
AC input voltage range		90~277VAC; 127~392VDC		90~264VAC; 127~370VDC
AC inrush current (max.)		Cold start, 25A at 230VAC		PLP-45: Cold start, 30A at 230VAC PLP-60: Cold start, 35A at 230VAC
Current adjustable range		75%~100%		
Over current protection	Range	95%~110%	100%~110%	
	Type	Constant current limiting, auto-recovery		
Setup time		500ms at full load and 230VAC		
Withstand voltage		I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature		-30~+60°C	-30~+70°C (refer to output derating curve)	
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13 approved		
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
Connection		UL1015 18AWGx2C (30cm)	3+2P / 3.96mm pitch, JST P/N: B3P / B2P-VH	
Dimension (LxWxH)(mm)		140x 32x 22	101.6x 50.8x 26.6	101.6x 50.8x 29.6

PLP-20 Series



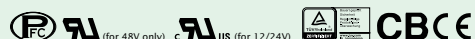
Model No.	Output	Tol.	R&N	Effi.
PLP-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLP-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLP-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLP-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLP-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

PLP-45 Series



Model No.	Output	Tol.	R&N	Effi.
PLP-45-12	12V, 0~3.8A	±10%	4.2V	86%
PLP-45-24	24V, 0~1.9A	±10%	3.8V	89%
PLP-45-48	48V, 0~0.95A	±10%	4.8V	89%

PLP-30 Series



Model No.	Output	Tol.	R&N	Effi.
PLP-30-12	12V, 0~2.5A	±10%	2.0V	83.0%
PLP-30-24	24V, 0~1.3A	±10%	2.4V	85.5%
PLP-30-48	48V, 0~0.63A	±10%	4.8V	86.5%

PLP-60 Series



Model No.	Output	Tol.	R&N	Effi.
PLP-60-12	12V, 0~5.0A	±10%	4.5V	84%
PLP-60-24	24V, 0~2.5A	±10%	4.5V	88%
PLP-60-48	48V, 0~1.3A	±10%	4.8V	89%

Special Symbols for EN61347-2-13

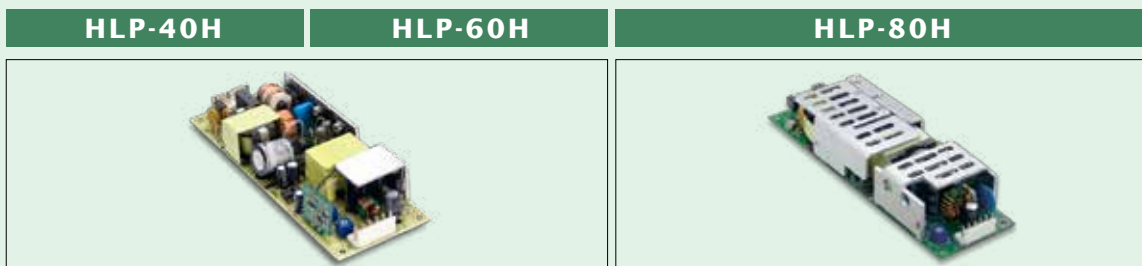
	Protection against overheating to prevent the lamp controlgear case temperature under any conditions of use from exceeding the indicated value (110°C)
	Suitable for direct mounting on normally flammable surfaces, such as wood (>2mm)
	Based on VDE0710-14, can be installed inside a wooden material like wooden cabinet. The minimum distance between the product enclosure to wooden material in each side is defined.
LPS	Limited power source
t _c : 80°C t _a : 40°C	Full load operation up to 40°C with surface temperature of case < 80°C
SELV	Vo < 120VDC can have this mark on the unit

HLP series

40~80W Single Output with PFC

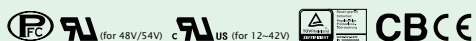
► Features

- Universal AC input (up to 305VAC) / Full range
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- Output constant current level adjustable
- Class 2 power unit / Pass LPS
- Cooling by free air convection
- Suitable for built-in LED lighting system
- Built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
- 3 years warranty



AC input voltage range	90~305VAC ; 127~431VDC		
AC inrush current (max.)	Cold start, 50A at 230VAC	Cold start, 55A at 230VAC	Cold start, 70A at 230VAC
DC adjustment range	±10% rated output voltage		
Current adjustment range	60%~100%		80%~100%
Over current protection	95%~108% constant current limiting, auto-recovery		
Over voltage protection	109%~145% rated output voltage		
Setup, rise, hold up time	500ms, 80ms, 16ms at full load and 230VAC		500ms, 200ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature	-40~+70°C (refer to output derating curve)		
Safety standards	UL8750, TUV EN61347-1, EN61347-2-13 approved; Design refer to EN60335-1(HLP-40H/60H), UL60950-1, EN60950-1		
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
Connection	Input	6+6P/3.96mm pitch, JST P/N: B6P-VH	
	Output		
Dimension (LxWxH) (mm)	147x 53x 27		167x 53x 29.5

HLP-40H Series



Model No.	Output	Tol.	R&N	Effi.
HLP-40H-12	12V, 0~3.33A	±2.5%	150mV	87.0%
HLP-40H-15	15V, 0~2.67A	±2.0%	150mV	87.0%
HLP-40H-20	20V, 0~2.00A	±1.0%	150mV	88.0%
HLP-40H-24	24V, 0~1.67A	±1.0%	150mV	88.0%
HLP-40H-30	30V, 0~1.34A	±1.0%	200mV	88.5%
HLP-40H-36	36V, 0~1.12A	±1.0%	200mV	89.0%
HLP-40H-42	42V, 0~0.96A	±1.0%	300mV	89.0%
HLP-40H-48	48V, 0~0.84A	±1.0%	300mV	89.5%
HLP-40H-54	54V, 0~0.75A	±1.0%	300mV	89.5%

HLP-60H Series



Model No.	Output	Tol.	R&N	Effi.
HLP-60H-15	15V, 0~4.0A	±2.0%	150mV	88.0%
HLP-60H-20	20V, 0~3.0A	±1.0%	150mV	89.0%
HLP-60H-24	24V, 0~2.5A	±1.0%	150mV	89.5%
HLP-60H-30	30V, 0~2.0A	±1.0%	200mV	90.0%

Model No.	Output	Tol.	R&N	Effi.
HLP-60H-36	36V, 0~1.70A	±1.0%	200mV	90.0%
HLP-60H-42	42V, 0~1.45A	±1.0%	300mV	90.0%
HLP-60H-48	48V, 0~1.30A	±1.0%	300mV	90.5%
HLP-60H-54	54V, 0~1.15A	±1.0%	300mV	90.5%

HLP-80H Series



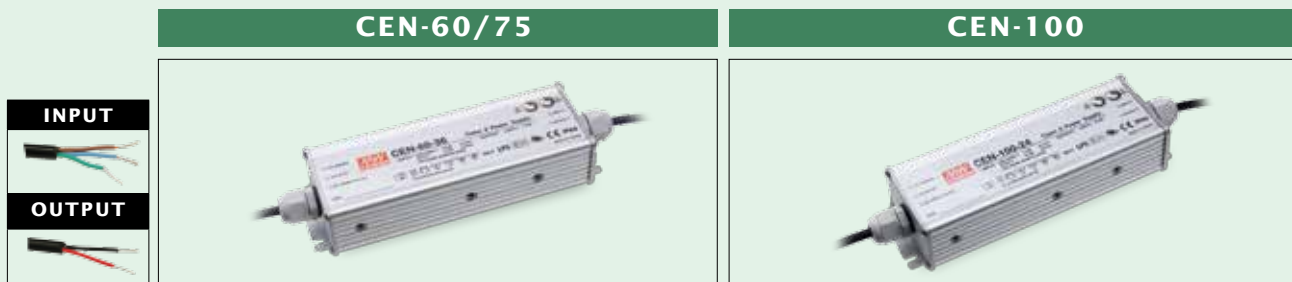
Model No.	Output	Tol.	R&N	Effi.
HLP-80H-12	12V, 0~5.0A	±2.5%	150mV	87.5%
HLP-80H-15	15V, 0~5.0A	±2.0%	150mV	88.5%
HLP-80H-20	20V, 0~4.0A	±1.0%	150mV	89.5%
HLP-80H-24	24V, 0~3.4A	±1.0%	150mV	90.0%
HLP-80H-30	30V, 0~2.7A	±1.0%	200mV	90.0%
HLP-80H-36	36V, 0~2.3A	±1.0%	200mV	90.0%
HLP-80H-42	42V, 0~1.95A	±1.0%	200mV	90.0%
HLP-80H-48	48V, 0~1.7A	±1.0%	200mV	90.0%
HLP-80H-54	54V, 0~1.5A	±1.0%	200mV	90.0%

CEN series

60~96W Single Output with PFC

► Features

- Universal AC input (up to 295VAC) / Full range
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- IP66 design
- Meet 4kV surge immunity level (IEC61000-4-5)
- Class 2 power unit / Pass LPS
- Cooling by free air convection
- Suitable for dry, damp, and wet location
- Suitable for LED lighting and moving sign applications
- 3 years warranty



AC input voltage range	90~295VAC ; 127~417VDC	
AC inrush current (max.)	Cold start, 45A at 230VAC	
DC adjustment range	±10% rated output voltage	
Current adjustment range	75%~100%	65%~100%
Over current protection	95%~110% constant current limiting, auto-recovery	
Over voltage protection	110%~140% rated output voltage	110%~135% rated output voltage
Over temp. protection	Shut down o/p voltage, re-power on to recover	
Setup time	500ms at full load and 230VAC, no hold up time	500ms at full load and 230VAC, no hold up time
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature	-30~+70°C (refer to output derating curve)	
Safety standards	UL8750, UL879 (except for CEN-100), TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved	
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
Connection	Input	UL rated, SJTW 18AWGx3C (30cm)
	Output	UL rated, SVT 18AWGx2C (30cm)
Dimension (LxWxH) (mm)	185x 62.5x 40.5	195x 62.5x 40.5

CEN-60 Series



Model No.	Output	Tol.	R&N	Effi.
CEN-60-12	12V, 0~5.0A	±10%	2.0V	86%
CEN-60-15	15V, 0~4.0A	±10%	2.4V	87%
CEN-60-20	20V, 0~3.0A	±10%	1.8V	88%
CEN-60-24	24V, 0~2.5A	±10%	2.4V	89%
CEN-60-30	30V, 0~2.0A	±10%	3.0V	90%
CEN-60-36	36V, 0~1.7A	±10%	3.6V	90%
CEN-60-42	42V, 0~1.45A	±10%	4.0V	90%
CEN-60-48	48V, 0~1.3A	±10%	4.6V	91%
CEN-60-54	54V, 0~1.15A	±10%	5.0V	91%

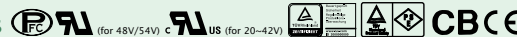
CEN-75 Series



Model No.	Output	Tol.	R&N	Effi.
CEN-75-15	15V, 0~5.00A	±10%	2.7V	87%
CEN-75-20	20V, 0~3.75A	±10%	2.0V	88%
CEN-75-24	24V, 0~3.15A	±10%	2.7V	89%

Model No.	Output	Tol.	R&N	Effi.
CEN-75-30	30V, 0~2.50A	±10%	3.0V	90%
CEN-75-36	36V, 0~2.10A	±10%	3.6V	90%
CEN-75-42	42V, 0~1.80A	±10%	4.0V	90%
CEN-75-48	48V, 0~1.57A	±10%	4.6V	91%
CEN-75-54	54V, 0~1.40A	±10%	5.0V	91%

CEN-100 Series



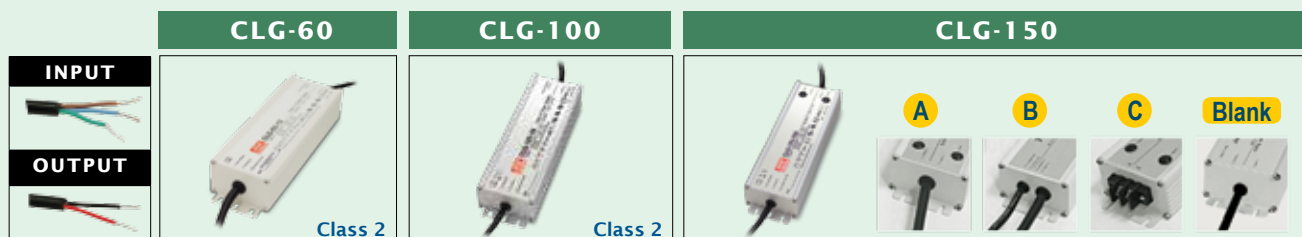
Model No.	Output	Tol.	R&N	Effi.
CEN-100-20	20V, 0~4.80A	±10%	2.0V	88%
CEN-100-24	24V, 0~4.00A	±10%	2.7V	89%
CEN-100-30	30V, 0~3.20A	±10%	3.0V	90%
CEN-100-36	36V, 0~2.65A	±10%	3.6V	90%
CEN-100-42	42V, 0~2.28A	±10%	4.0V	90%
CEN-100-48	48V, 0~2.00A	±10%	4.6V	91%
CEN-100-54	54V, 0~1.77A	±10%	5.0V	91%

CLG series

60~150W Single Output with PFC

Features

- Universal AC input (up to 295VAC) / Full range
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- IP67/IP65 design for indoor or outdoor installations (except for C-Type)
- Output current adjustable through output cable or internal potentiometer (CLG-150)
- Class 2 power unit / Pass LPS (CLG-60&100)
- Cooling by free air convection
- Suitable for LED lighting, street lighting and moving sign applications
- Meet 4kV surge immunity level (IEC 61000-4-5)
- Multiple models for CLG-150 :
 - A-Type:** IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer
 - B-Type:** IP67 rated. Constant current level adjustable through output cable
 - C-Type:** Non IP. Terminal block for I/O connection
 - Blank-Type:** IP67 rated. Cable for I/O connection
- 3 years warranty



		CLG-60	CLG-100	CLG-150
INPUT				
OUTPUT				
AC input voltage range		90~295VAC; 127~417VDC		
AC inrush current (max.)		Cold start, 35A at 230VAC	Cold start, 40A at 230VAC	Cold start, 65A at 230VAC
DC adjustment range		Fixed. Can be modified between 90%~110% (CLG-60) or 85%~100% (CLG-100) rated output voltage		
Current adjustment range		Fixed. Can be modified between 75%~103% rated output current		
Over current protection		95%~110% constant current, auto-recovery	95%~102% constant current, auto-recovery	95%~108% constant current limiting, auto-recovery
Over voltage protection		110%~140% rated output voltage		
Setup, rise, hold up time		500ms(setup time), no hold up time	500ms, 80ms, 60ms at full load and 230VAC	500ms, 80ms, 16ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature		-30~+70°C (refer to output derating curve)		
Safety standards		UL1310, UL8750, UL879, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; TUV EN60950-1 for CLG-100 only		
EMC standards		EN55015, EN55022 class B, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
Connection	Input	UL rated, SJTW 18AWGx3C (30cm)		
	Output	UL rated, SVT 18AWGx2C (30cm)		
Dimension (LxWxH)(mm)		195.6x 61.5x 38.8	222.2x 68x 38.8	A/B/Blank-Type: 222.2x 68x 38.8; C-Type: 229x 68x 38.8
Packing		0.86kg; 16pcs / 14.8kg	1.0kg; 12pcs / 13kg	1.0kg; 12pcs / 13kg

CLG-60 Series



Model No.	Output	Tol.	R&N	Effi.
★ CLG-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
CLG-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
CLG-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
★ CLG-60-24	24V, 0~2.5A	±10%	2.7V	87.0%
CLG-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
CLG-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
★ CLG-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

CLG-100 Series



Model No.	Output	Tol.	R&N	Effi.
★ CLG-100-12	12V, 0~5.00A	±3%	150mV	83.0%
CLG-100-15	15V, 0~5.00A	±3%	150mV	85.0%
CLG-100-20	20V, 0~4.80A	±3%	150mV	88.5%
★ CLG-100-24	24V, 0~4.00A	±3%	150mV	88.5%

Model No.	Output	Tol.	R&N	Effi.
CLG-100-27	27V, 0~3.55A	±3%	150mV	88.0%
CLG-100-36	36V, 0~2.65A	±2%	150mV	88.0%
★ CLG-100-48	48V, 0~2.00A	±2%	200mV	88.5%

CLG-150 Series



Model No.	Output	Tol.	R&N	Effi.
★ CLG-150-12[A]	12V, 0~11.0A	±2%	150mV	88%
CLG-150-15[A]	15V, 0~9.50A	±2%	150mV	88%
CLG-150-20[A]	20V, 0~7.50A	±2%	150mV	90%
★ CLG-150-24[A]	24V, 0~6.30A	±1%	150mV	90%
CLG-150-30[A]	30V, 0~5.00A	±1%	150mV	91%
★ CLG-150-36[A]	36V, 0~4.20A	±1%	150mV	91%
★ CLG-150-48[A]	48V, 0~3.20A	±1%	200mV	91%

□ = A, B, C or blank

★ CLG-60-12/24/48, CLG-100-12/24/48 & CLG-150-12A/24A/36A/48A are our popular models. We will keep sufficient stock for prompt delivery of high quantity orders.

HLG series

40~60W High Efficiency with PFC

► Features

- Universal AC input (up to 305VAC) / Full range
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- High efficiency up to 90.5%
- IP67 / IP65 design for indoor or outdoor installations
- Output current adjustable through output cable or internal potentiometer
- Cooling by free air convection
- Suitable for dry, damp, and wet location
- Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)

- Class 2 power unit
- Multiple models for choice:
 - A-Type:** IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer
 - B-Type:** IP67 rated and **built-in 3 in 1 dimming function** (1~10VDC, PWM signal, or resistance)
 - Blank-Type:** IP67 rated. Cable for I/O connection
 - D-Type(option):** IP67 rated. Timer dimming function, contact MEAN WELL for details.
- Optional CQC models available (HLG-40H/60H-A/Blank-Type)
- **5 years warranty**



AC input voltage range		90~305VAC ; 127~431VDC
AC inrush current (max.)		Cold start, 50A at 230VAC
DC adjustment range		±10% rated output voltage (A-Type only)
Current adjustment range		60%~100%
Over current protection		95%~108% constant current limiting, auto-recovery
Over voltage protection		109%~145% rated output voltage
Setup, rise, hold up time		500ms, 80ms, 16ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC
Working temperature		-40~+70°C (refer to output derating curve)
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; Design refer to EN60335-1
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
Connection	Input	UL rated, SJTW 18AWGx3C (30cm)
	Output	A/D/Blank-Type: SVT 18AWGx2C (30cm); B-Type: SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)
Dimension (LxWxH) (mm)		171x 61.5x 36.8

HLG-40H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-40H-12(A)	12V, 0~3.33A	±2.5%	150mV	86.5%
HLG-40H-15(A)	15V, 0~2.67A	±2.0%	150mV	86.5%
HLG-40H-20(A)	20V, 0~2.00A	±1.0%	150mV	88.0%
HLG-40H-24(A)	24V, 0~1.67A	±1.0%	200mV	88.0%
HLG-40H-30(A)	30V, 0~1.34A	±1.0%	200mV	88.5%
HLG-40H-36(A)	36V, 0~1.12A	±1.0%	200mV	88.5%
HLG-40H-42(A)	42V, 0~0.96A	±1.0%	200mV	88.5%
HLG-40H-48(A)	48V, 0~0.84A	±1.0%	300mV	89.5%
HLG-40H-54(A)	54V, 0~0.75A	±1.0%	300mV	89.5%

○ = A, B, D or Blank

HLG-60H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-60H-15(A)	15V, 0~4.0A	±2.0%	150mV	87.5%
HLG-60H-20(A)	20V, 0~3.0A	±1.0%	150mV	89.0%
HLG-60H-24(A)	24V, 0~2.5A	±1.0%	150mV	89.5%
HLG-60H-30(A)	30V, 0~2.0A	±1.0%	200mV	90.0%

Model No.	Output	Tol.	R&N	Effi.
HLG-60H-36(A)	36V, 0~1.70A	±1.0%	200mV	90.0%
HLG-60H-42(A)	42V, 0~1.45A	±1.0%	300mV	90.0%
HLG-60H-48(A)	48V, 0~1.30A	±1.0%	300mV	90.5%
HLG-60H-54(A)	54V, 0~1.15A	±1.0%	300mV	90.5%

○ = A, B, D or Blank

► Junction Box for HLG Series



- Optional junction box available for HLG-80H~320H series (A/B/Blank-Type only). Please contact MEAN WELL for details.
- "UL8750 listed" safety & IP66 approved for HLG-80H-□BL (modified from B-Type only)

HLG series

80~120W High Efficiency with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- High efficiency up to 93.5%
- IP67 / IP65 design for indoor or outdoor installations
- Output current adjustable through output cable or internal potentiometer
- Cooling by free air convection
- Suitable for dry, damp, and wet location
- Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)
- Class 2 power unit / Pass LPS (except for HLG-120H)

- Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and **built-in 3 in 1 dimming function** (1~10VDC, PWM signal, or resistance)

Blank-Type: IP67 rated. Cable for I/O connection

BL-Type(option): for HLG-80H B-Type only, "UL8750 listed" safety & IP66 approved, contact MEAN WELL for details

D-Type(option): IP67 rated. Timer dimming function, contact MEAN WELL for details (safety pending for 100W/120W)

- Optional CQC models available (HLG-80H/100H/120H-A/Blank type)

• 5 years warranty



AC input voltage range		90~305VAC ; 127~431VDC	
AC inrush current (max.)		Cold start, 70A at 230VAC	Cold start, 60A at 230VAC
DC adjustment range		±10% rated output voltage (A-Type only)	
Current adjustment range		HLG-80H/100H: 60%~100% ; HLG-120H: 50%~100%	
Over current protection		95%~108% constant current limiting, auto-recovery	
Over voltage protection		110%~140% rated output voltage	
Setup, rise, hold up time		500ms, 80ms, 16ms at full load and 230VAC	500ms, 50ms, 16ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG:1.5kVAC	
Working temperature		-40~+70°C (refer to output derating curve)	
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; UL8750 listed for HLG-80H-□BL only; ENEC EN61347-1, EN61347-2-13 for HLG-120H only	
EMC standards		EN55015, EN55022 class B (except for HLG-80H), EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
Connection	Input	UL rated, SJTW 18AWGx3C (30cm)	
	Output	A/D/Blank-Type: SVT 18AWGx2C (30cm) ; B-Type: SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)	A/D/Blank-Type: SJTW 14AWGx2C (30cm) ; B-Type: SJTW 14AWGx2C (30cm)+SJTW 18AWGx2C (30cm)
Dimension (LxWxH) (mm)		195.6x 61.5x 38.8	220x 68x 38.8

HLG-80H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-80H-12(A)	12V, 0~5.0A	±2.5%	150mV	88.0%
HLG-80H-15(A)	15V, 0~5.0A	±2.0%	150mV	89.0%
HLG-80H-20(A)	20V, 0~4.0A	±1.0%	150mV	90.0%
HLG-80H-24(A)	24V, 0~3.4A	±1.0%	150mV	90.5%
HLG-80H-30(A)	30V, 0~2.7A	±1.0%	200mV	91.0%
HLG-80H-36(A)	36V, 0~2.3A	±1.0%	200mV	91.0%
HLG-80H-42(A)	42V, 0~1.95A	±1.0%	200mV	91.0%
HLG-80H-48(A)	48V, 0~1.7A	±1.0%	200mV	91.0%
HLG-80H-54(A)	54V, 0~1.5A	±1.0%	200mV	91.0%

○ = A, B, BL, D or Blank

HLG-100H Series

Model No.	Output	Tol.	R&N	Effi.
HLG-100H-20(A)	20V, 0~4.8A	±1.0%	150mV	93%
HLG-100H-24(A)	24V, 0~4.0A	±1.0%	150mV	93%
HLG-100H-30(A)	30V, 0~3.2A	±1.0%	200mV	93%
HLG-100H-36(A)	36V, 0~2.65A	±1.0%	200mV	93%

Model No.	Output	Tol.	R&N	Effi.
HLG-100H-42(A)	42V, 0~2.28A	±1.0%	200mV	93%
HLG-100H-48(A)	48V, 0~2.0A	±1.0%	200mV	93%
HLG-100H-54(A)	54V, 0~1.77A	±1.0%	200mV	93%

○ = A, B, D or Blank

HLG-120H Series

Model No.	Output	Tol.	R&N	Effi.
★ HLG-120H-12(A)	12V, 0~10A	±2.5%	150mV	92.0%
HLG-120H-15(A)	15V, 0~8.0A	±2.0%	150mV	92.0%
HLG-120H-20(A)	20V, 0~6.0A	±1.0%	150mV	93.0%
★ HLG-120H-24(A)	24V, 0~5.0A	±1.0%	150mV	93.0%
HLG-120H-30(A)	30V, 0~4.0A	±1.0%	200mV	93.0%
HLG-120H-36(A)	36V, 0~3.4A	±1.0%	200mV	93.0%
HLG-120H-42(A)	42V, 0~2.9A	±1.0%	200mV	93.0%
★ HLG-120H-48(A)	48V, 0~2.5A	±1.0%	200mV	93.5%
HLG-120H-54(A)	54V, 0~2.3A	±1.0%	200mV	93.5%

○ = A, B, D or Blank

- ★ HLG-120H-12A/24A/48A are our popular models. We will keep sufficient stock for prompt delivery of high quantity orders.

HLG series

150~240W High Efficiency with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Protections:
Short circuit / Over current / Over voltage / Over temp.
- Built-in active PFC function
- High efficiency up to 94%
- IP67 / IP65 design for indoor or outdoor installations (except for HLG-240H C-Type)
- Output current adjustable
- Cooling by free air convection
- Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires

• Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

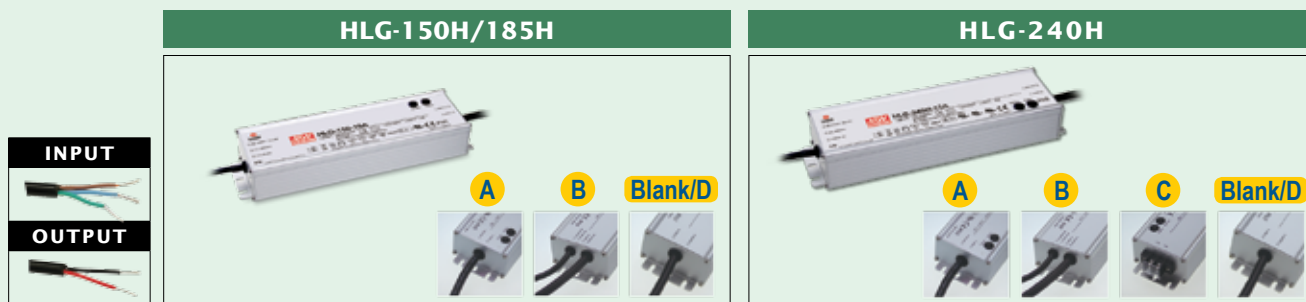
B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)

C-Type: Terminal block for I/O connection (HLG-240H)

Blank-Type: IP67 rated. Cable for I/O connection

D-Type(option): IP67 rated. Timer dimming function, contact MEAN WELL for details (safety pending)

- Optional CQC models available (HLG-150H/185H/240H-A/Blank-Type)
- 5 years warranty



AC input voltage range	90~305VAC; 127~431VDC	
AC inrush current (max.)	Cold start, 65A at 230VAC	Cold start, 75A at 230VAC
DC adjustment range	±10% rated output voltage	
Current adjustment range	HLG-150H: 60%~100%; HLG-185H/240H: 50%~100%	
Over current protection	95%~108% constant current limiting, auto-recovery	
Over voltage protection	110%~140% rated output voltage	
Setup, rise, hold up time	500ms, 50ms, 16ms	500ms, 80ms, 15ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC	
Working temperature	-40~+70°C (refer to output derating curve)	
Safety standards	UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 (except for HLG-240H C-Type) approved; UL1012, UL60950-1, TUV EN60950-1 approved for HLG-240H only	
EMC standards	EN55015, EN55022 class B, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
Connection	Input	UL rated, SJTW 18AWGx3C (30cm); Terminal block for HLG-240H C-Type
	Output	A/D/Blank-Type: SJTW 14AWGx2C (30cm); B-Type: SJTW 14AWGx2C (30cm)+SJTW 18AWGx2C (30cm); C-Type: Terminal block (HLG-240H)
Dimension (LxWxH)(mm)	A/B/D/Blank-Type: 228x 68x 38.8 C-Type: 251x 68x 38.8	

HLG-150H Series



Model No.	Output	Tol.	R&N	Effi.
HLG-150H-12(A)	12V, 0~12.5A	±2.5%	150mV	91.5%
HLG-150H-15(A)	15V, 0~10.0A	±2.0%	150mV	92.0%
HLG-150H-20(A)	20V, 0~7.50A	±1.0%	150mV	93.0%
HLG-150H-24(A)	24V, 0~6.30A	±1.0%	150mV	93.0%
HLG-150H-30(A)	30V, 0~5.00A	±1.0%	200mV	93.5%
HLG-150H-36(A)	36V, 0~4.20A	±1.0%	200mV	93.5%
HLG-150H-42(A)	42V, 0~3.60A	±1.0%	200mV	94.0%
HLG-150H-48(A)	48V, 0~3.20A	±1.0%	200mV	94.0%
HLG-150H-54(A)	54V, 0~2.80A	±1.0%	200mV	94.0%

○ = A, B, D or Blank

HLG-185H Series



Model No.	Output	Tol.	R&N	Effi.
★ HLG-185H-12(A)	12V, 0~13.0A	±2.5%	150mV	91.5%
HLG-185H-15(A)	15V, 0~11.5A	±2.0%	150mV	92.0%
HLG-185H-20(A)	20V, 0~9.30A	±1.0%	150mV	93.0%
★ HLG-185H-24(A)	24V, 0~7.80A	±1.0%	150mV	93.5%
HLG-185H-30(A)	30V, 0~6.20A	±1.0%	200mV	93.5%

Model No.	Output	Tol.	R&N	Effi.
HLG-185H-36(A)	36V, 0~5.20A	±1.0%	200mV	93.5%
HLG-185H-42(A)	42V, 0~4.40A	±1.0%	200mV	94.0%
HLG-185H-48(A)	48V, 0~3.90A	±1.0%	200mV	94.0%
★ HLG-185H-54(A)	54V, 0~3.45A	±1.0%	200mV	94.0%

○ = A, B, D or Blank

HLG-240H Series



Model No.	Output	Tol.	R&N	Effi.
★ HLG-240H-12(A)	12V, 0~16.0A	±2.5%	150mV	90.0%
HLG-240H-15(A)	15V, 0~15.0A	±2.0%	150mV	90.0%
HLG-240H-20(A)	20V, 0~12.0A	±1.0%	150mV	91.5%
★ HLG-240H-24(A)	24V, 0~10.0A	±1.0%	150mV	92.5%
HLG-240H-30(A)	30V, 0~8.00A	±1.0%	200mV	92.5%
HLG-240H-36(A)	36V, 0~6.70A	±1.0%	250mV	92.5%
HLG-240H-42(A)	42V, 0~5.72A	±1.0%	250mV	92.5%
★ HLG-240H-48(A)	48V, 0~5.00A	±1.0%	250mV	93.0%
HLG-240H-54(A)	54V, 0~4.45A	±1.0%	350mV	93.5%

○ = A, B, C, D or Blank

★ HLG-185H-12A/24A/48A & HLG-240H-12A/24A/48A are our popular models. We will keep sufficient stock for prompt delivery of high quantity orders.

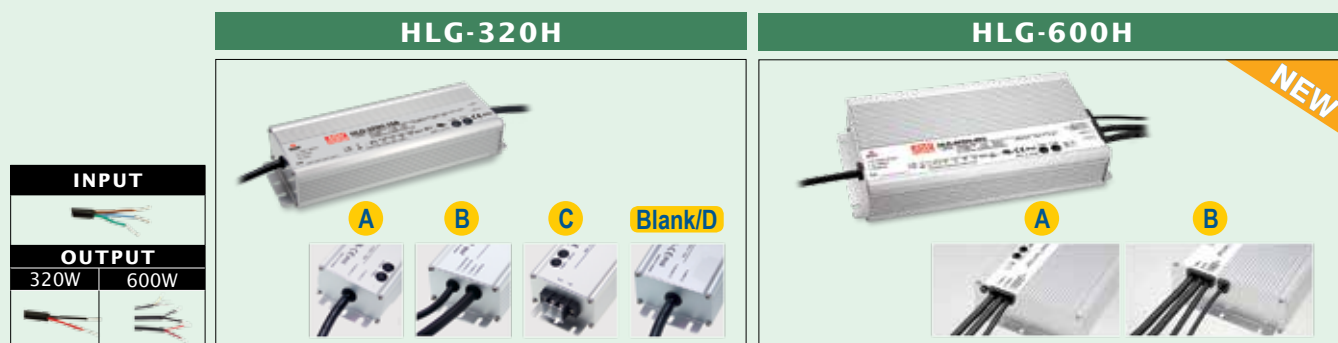
HLG series

320~600W High efficiency with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Protections:
Short circuit / Over current / Over voltage / Over temp.
- Built-in active PFC function
- High efficiency up to 96%
- IP67 / IP65 design for indoor or outdoor installations (except for HLG-320H C-Type)
- Output current adjustable through output cable or internal potentiometer
- Cooling by free air convection
- Suitable for LED lighting and street lighting applications
- Meet 4kV surge immunity level (IEC61000-4-5)
- No load power consumption <0.5W at remote off (HLG-600H)

- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- LED indicator for power on (HLG-600H A-Type only)
- Multiple models for choice:
A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer
B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
C-Type: Terminal block for I/O connection (HLG-320H only)
Blank-Type: IP67 rated. Cable for I/O connection (HLG-320H only)
D-Type(option): IP67 rated. Timer dimming function, contact MEAN WELL for details (HLG-320H only)
- 5 years warranty



AC input voltage range	90~305VAC; 127~431VDC		
AC inrush current (max.)	Cold start, 70A at 230VAC		
DC adjustment range	-15%~+13.3% rated output voltage (A-Type & C-Type)	-15%~+5% rated output voltage (A-Type only)	
Current adjustment range	50%~100% rated output current adjustable by internal potentiometer (for A-Type & HLG-320H C-Type)		
Over current protection	95%~108% constant current limiting, auto- recovery		
Over voltage protection	110%~140% rated output voltage		
Setup, rise, hold up time	500ms, 80ms, 15ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature	-40~+70°C (refer to output dearting curve)		
Safety standards	UL8750, TUV EN61347-1/2-13, PSE J61347-1/2-13 (HLG-320H A/B/D/Blank-Type only) approved	UL60950-1, UL8750, ENEC EN61347-1/2-13, EN62384 approved	
EMC standards	EN55015, EN55022 class B, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11,EN61547		
Connection	Input	A/B/D/Blank-Type: UL rated, SJTW 18AWGx3C (30cm); C-Type: Terminal block	UL rated, SJTW 18AWGx3C (30cm)
	Output	A/D/Blank-Type: SJTW 14AWGx2C (30cm) B-Type: SJTW 14AWGx2C (30cm) + SJTW 18AWGx2C (30cm) C-Type: Terminal block	A-Type: SJTW 14AWGx2C (30cm)+ SJTW 14AWGx2C (30cm) + UL2517 22AWGx3C(30cm) B-Type: SJTW 14AWGx2C (30cm)+ SJTW 14AWGx2C (30cm) + UL2517 22AWGx3C(30cm)+ UL2517 18AWGx2C (30cm)
Dimension (LxWxH)(mm)		252x 90x 43.8	280x 144x 48.5

HLG-320H Series



Model No.	Output	Tol.	R&N	Effi.
HLG-320H-12(A)	12V, 0~22.0A	±3.0%	150mV	91.0%
HLG-320H-15(A)	15V, 0~19.0A	±2.0%	150mV	92.5%
HLG-320H-20(A)	20V, 0~15.0A	±1.5%	150mV	93.5%
HLG-320H-24(A)	24V, 0~13.34A	±1.0%	150mV	94.0%
HLG-320H-30(A)	30V, 0~10.7A	±1.0%	200mV	94.0%
HLG-320H-36(A)	36V, 0~8.90A	±1.0%	250mV	94.5%
HLG-320H-42(A)	42V, 0~7.65A	±1.0%	250mV	95.0%
HLG-320H-48(A)	48V, 0~6.70A	±1.0%	250mV	95.0%
HLG-320H-54(A)	54V, 0~5.95A	±1.0%	350mV	95.0%

○ = A, B, C, D or Blank

HLG-600H Series



Model No.	Output	Tol.	R&N	Effi.
HLG-600H-12(A)	12V, 0~40A	±3%	150mV	92.0%
HLG-600H-15(A)	15V, 0~36A	±2%	150mV	93.5%
HLG-600H-20(A)	20V, 0~28A	±1.5%	150mV	94.5%
HLG-600H-24(A)	24V, 0~25A	±1.0%	150mV	95.0%
HLG-600H-30(A)	30V, 0~20A	±1.0%	200mV	95.0%
HLG-600H-36(A)	36V, 0~16.7A	±1.0%	250mV	95.5%
HLG-600H-42(A)	42V, 0~14.3A	±1.0%	250mV	96.0%
HLG-600H-48(A)	48V, 0~12.5A	±1.0%	250mV	96.0%
HLG-600H-54(A)	54V, 0~11.2A	±1.0%	350mV	96.0%

○ = A, B

HLG-C series

70~200W Constant Current with PFC

Features

- Constant current output with high output voltage >60VDC
- Universal AC input (up to 305VAC) / Full range
- Built-in active PFC function
- High efficiency up to 94%
- Protections: Short circuit / Over voltage / Over temperature
- Cooling by free air convection
- Output current adjustable through output cable or internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Suitable for dry, damp, and wet location

- Suitable for LED lighting and street lighting applications
- Multiple models for choice:
 - A-Type:** IP65 rated. Constant current level can be adjusted through internal potentiometer
 - B-Type:** IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
 - D-Type (option):** IP67 rated. Timer dimming function, contact MEAN WELL for details
- 5 years warranty



AC input voltage range		90~305VAC; 127VDC~431VDC			
AC inrush current (max.)		Cold start, 60A at 230VAC		Cold start, 50A at 230VAC	Cold start, 55A at 230VAC
Current adjustment range		60%~100%		50%~100%	
Short circuit protection		Hiccup mode, auto-recovery		Constant current limiting, auto-recovery	
Over temp. protection		Shut down o/p voltage, re-power on to recover		Shut down o/p voltage, auto-recovery	
Setup, rise, hold up time		500ms, 80ms, 16ms at full load and 230VAC			
Withstand voltage		I/P-O/P:3.75kVAC, I/P-FG:2kVAC, O/P-FG:1.5kVAC			
Working temperature		-40~+70℃ (refer to output derating curve)			
Safety standards		HLG-60H-C/80H-C: UL8750, TUV EN61347-1, EN61347-2-13 approved HLG-120H-C/185H-C: UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved			
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
Connection	Input	UL rated, SJTW 16AWGx3C(30cm)			
	Output	A&D-Type: SJTW 16AWGx2C(30cm) B-Type: SJTW 16AWGx2C(30cm)+ SJTW 16AWGx2C(30cm)		A&D-Type: STW 16AWGx2C(30cm) for HLG-120H-C350 and HLG-185H-C500; SJTW 16AWGx2C(30cm) for others B-Type: STW 16AWGx2C(30cm) + SJTW 16AWGx2C(30cm) for HLG-120H-C350 and HLG-185H-C500; SJTW 16AWGx2C(30cm) + SJTW 16AWGx2C(30cm) for others	
Dimension (LxWxH)(mm)		171x 61.5x 36.8	195.6x 61.5x 38.8	220x 68x 38.8	228x 68x 38.8

HLG-60H-C Series (70W)



Model No.	Output	Io Tol.	R&N	Effi.
HLG-60H-C350(A)	100~200V, 350mA	±5%	1V	91%
HLG-60H-C700(A)	50~100V, 700mA	±5%	0.5V	90.5%

○ = A, B or D

HLG-120H-C Series (150W)



Model No.	Output	Io Tol.	R&N	Effi.
HLG-120H-C350(A)	215~430V, 350mA	±5%	2V	94%
HLG-120H-C500(A)	150~300V, 500mA	±5%	1.5V	94%
HLG-120H-C700(A)	107~215V, 700mA	±5%	1V	94%
HLG-120H-C1050(A)	74~148V, 1050mA	±5%	1V	94%
HLG-120H-C1400(A)	54~108V, 1400mA	±5%	1V	93.5%

○ = A, B or D

HLG-80H-C Series (90W)



Model No.	Output	Io Tol.	R&N	Effi.
HLG-80H-C350(A)	167~257V, 350mA	±5%	1V	91.5%
HLG-80H-C700(A)	84~129V, 700mA	±5%	0.5V	91.5%

○ = A, B or D

HLG-185H-C Series (200W)



Model No.	Output	Io Tol.	R&N	Effi.
HLG-185H-C500(A)	200~400V, 500mA	±5%	2V	94%
HLG-185H-C700(A)	143~286V, 700mA	±5%	1.5V	94%
HLG-185H-C1050(A)	95~190V, 1050mA	±5%	1V	94%
HLG-185H-C1400(A)	71~143V, 1400mA	±5%	1V	94%

○ = A, B or D

HVG series

65~150W Wide Input Range with PFC

► Features

- 180~528VAC wide input range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- High efficiency up to 91.5%
- IP67 / IP65 design for indoor or outdoor installations
- Cooling by free air convection
- Output current adjustable through output cable or internal potentiometer
- Class 2 power unit / Pass LPS for HVG-65/100

- Suitable for dry, damp, and wet location
- Suitable for LED lighting and street lighting applications
- Multiple models for choice:
 - A-Type:** IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer
 - B-Type:** IP67 rated and **built-in 3 in 1 dimming function** (0~10VDC, PWM signal, or resistance)
 - D-Type (option):** IP67 rated. Timer dimming function, contact MEAN WELL for details
- 5 years warranty



AC input voltage range			180~528VAC (single phase); 254~747VDC		
AC inrush current (max.)			Cold start, 25A at 480VAC	Cold start, 25A at 480VAC	Cold start, 35A at 480VAC
DC adjustment range			±10% rated output voltage		
Current adjustment range			60%~100%	55%~100%	
Over current protection			95%~108% constant current limiting, auto-recovery		
Over voltage protection			110%~140% rated output voltage		
Setup, rise, hold up time			400ms, 80ms, 16ms at full load and 347VAC/480VAC	500ms, 80ms, 30ms at full load and 347VAC/480VAC	400ms, 80ms, 18ms at full load and 347VAC/480VAC
Withstand voltage			I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC		
Working temperature			-40~+70°C (refer to output derating curve)		
Safety standards			UL8750 approved		
EMC standards			EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, FCC part 15 class B		
Connection	Input		UL rated, STW 18AWGx3C (30cm)		
	Output	A&D-Type	SVT 18AWGx2C (30cm)		SJTW 14AWGx2C (30cm)
		B-Type	SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)		SJTW 14AWGx2C (30cm)+UL2517 18AWGx2C (30cm)
Dimension (LxWxH)(mm)			189x 61.5x 36.8	236x 68x 38.8	245x 68x 38.8

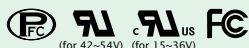
HVG-65 Series



Model No.	Output	Tol.	R&N	Effi.
HVG-65-12(A)	12V, 0~5A	±2.0%	120mV	86.5%
HVG-65-15(A)	15V, 0~4.3A	±2.0%	150mV	87.5%
HVG-65-20(A)	20V, 0~3.25A	±1.0%	150mV	88.5%
HVG-65-24(A)	24V, 0~2.71A	±1.0%	150mV	89.0%
HVG-65-30(A)	30V, 0~2.17A	±1.0%	200mV	89.0%
HVG-65-36(A)	36V, 0~1.81A	±1.0%	200mV	89.5%
HVG-65-42(A)	42V, 0~1.55A	±1.0%	300mV	89.5%
HVG-65-48(A)	48V, 0~1.36A	±1.0%	300mV	90.0%
HVG-65-54(A)	54V, 0~1.21A	±1.0%	300mV	90.0%

○ = A, B or D

HVG-100 Series



Model No.	Output	Tol.	R&N	Effi.
HVG-100-15(A)	15V, 0~5A	±2.0%	150mV	89.0%
HVG-100-20(A)	20V, 0~4.8A	±1.0%	150mV	90.0%
HVG-100-24(A)	24V, 0~4A	±1.0%	150mV	91.0%
HVG-100-30(A)	30V, 0~3.2A	±1.0%	200mV	91.0%

Model No.	Output	Tol.	R&N	Effi.
HVG-100-36(A)	36V, 0~2.65A	±1.0%	200mV	90.5%
HVG-100-42(A)	42V, 0~2.28A	±1.0%	200mV	90.5%
HVG-100-48(A)	48V, 0~2A	±1.0%	200mV	91.0%
HVG-100-54(A)	54V, 0~1.77A	±1.0%	200mV	91.0%

○ = A, B or D

HVG-150 Series



Model No.	Output	Tol.	R&N	Effi.
HVG-150-12(A)	12V, 0~10A	±2.5%	150mV	87.0%
HVG-150-15(A)	15V, 0~10A	±2.0%	150mV	89.0%
HVG-150-20(A)	20V, 0~7.5A	±1.0%	150mV	90.5%
HVG-150-24(A)	24V, 0~6.25A	±1.0%	150mV	91.0%
HVG-150-30(A)	30V, 0~5A	±1.0%	200mV	91.0%
HVG-150-36(A)	36V, 0~4.17A	±1.0%	200mV	91.0%
HVG-150-42(A)	42V, 0~3.58A	±1.0%	200mV	91.0%
HVG-150-48(A)	48V, 0~3.13A	±1.0%	200mV	91.5%
HVG-150-54(A)	54V, 0~2.78A	±1.0%	200mV	91.5%

○ = A, B or D

HVGC series

65~150W Wide Input Range with C.C. Output

Features

- 180~528VAC wide input range
- Protections: Short circuit / Over voltage / Over temperature
- Built-in active PFC function
- High efficiency up to 91%
- IP67 / IP65 design for indoor or outdoor installations
- Cooling by free air convection
- Constant current mode
- Output current adjustable through output cable or internal potentiometer
- Suitable for dry, damp, and wet location
- Suitable for LED lighting and street lighting applications
- Multiple models for choice:
 - A-Type:** IP65 rated. Constant current level can be adjusted through internal potentiometer
 - B-Type:** IP67 rated and built-in 3 in 1 dimming function (0~10VDC, PWM signal, or resistance)
 - D-Type (option):** IP67 rated. Timer dimming function, contact MEAN WELL for details
- 5 years warranty

		HVGC-65		HVGC-100		HVGC-150	
INPUT OUTPUT		NEW 					
AC input voltage range		180~528VAC (single phase); 254~747VDC					
AC inrush current (max.)		Cold start, 25A at 480VAC				Cold start, 35A at 480VAC	
Current adjustment range		60%~100%					
Over voltage protection		105%~115% rated output voltage					
Setup, rise, hold up time		400ms, 80ms, 16ms at full load and 347VAC/480VAC		500ms, 80ms, 30ms at full load and 347VAC/480VAC		400ms, 150ms, 18ms at full load and 347VAC/480VAC	
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC					
Working temperature		-40~+70℃ (refer to output derating curve)					
Safety standards		HVGC-65: UL8750, ENEC EN61347-1, EN61347-2-13, EN62384 approved HVGC-100/150: UL8750, TUV EN61347-1, EN61347-2-13 approved					
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, FCC part 15 class B					
Connection	Input		UL rated, STW 18AWGx3C (30cm)				
	Output	A&D-Type	SJTW 18AWGx2C (30cm)			STW 18AWGx2C (30cm)	
		B-Type	SJTW 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)			STW 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)	
Dimension (LxWxH)(mm)		189x 61.5x 36.8		236x 68x 38.8		245x 68x 38.8	

HVGC-65 Series



Model No.	Output	Io Tol.	R&N	Effi.
HVGC-65-350(A)	18~186V, 350mA	±5%	1.0V	90.0%
HVGC-65-500(A)	13~130V, 500mA	±5%	0.7V	90.5%
HVGC-65-700(A)	9~93V, 700mA	±5%	0.5V	90.5%
HVGC-65-1050(A)	6~62V, 1050mA	±5%	0.3V	90.0%

○ = A, B or D

HVGC-100 Series



Model No.	Output	Io Tol.	R&N	Effi.
HVGC-100-350(A)	29~285V, 350mA	±5%	1V	91%
HVGC-100-700(A)	15~142V, 700mA	±5%	0.5V	91%

○ = A, B or D

HVGC-150 Series



Model No.	Output	Io Tol.	R&N	Effi.
HVGC-150-350(A)	42~428V, 350mA	±5%	2.0V	91%
HVGC-150-500(A)	30~300V, 500mA	±5%	1.5V	91%
HVGC-150-700(A)	21~215V, 700mA	±5%	1.0V	91%
HVGC-150-1050(A)	15~143V, 1050mA	±5%	0.7V	90%
HVGC-150-1400(A)	12~107V, 1400mA	±5%	0.5V	90%

○ = A, B or D

HBG series

60~240W Circular Shape for Bay Lighting

Description

HBG series are high performance LED power supplies specially designed for the high/low bay lighting and spot lighting applications. Featuring with circular shape, these series are easy to be assembled with the mechanical structure of high/low bay lighting fixtures. The enclosures can be perfectly configured with the heat sink of lighting fixtures and provide excellent heat dissipation ability, which solve the mechanism limits of old style bay lighting systems using slim shape LED power supplies. (HBG-60 also offers models in PCB type, allowing a better variety for lighting module design consideration.) As long as the temperature on the top of the enclosure can be controlled under 70°C, the power supply service life could be guaranteed up to 40,000 hours. For more detail information, please visit our website: www.meanwell.com/product/HBG/HBG.html

HBG-60	HBG-100	HBG-160	HBG-240
 DxH: $\phi 100 \times 25 \text{mm}$ DxH: $\phi 110 \times 40 \text{mm}$	 DxH: $\phi 130 \times 66.5 \text{mm}$	 DxH: $\phi 151.68 \times 66.5 \text{mm}$	 DxH: $\phi 191.5 \times 69 \text{mm}$

Features

- HBG-60: 90~295VAC input; HBG-100~240: 90~305VAC input
- Built-in active PFC function
- High efficiency up to 93.5%
- Protections: Short circuit / Over current / Over voltage / Over temp. (Short circuit / Over temp. for HBG-60)
- Output current adjustable through internal potentiometer
- Suitable for dry, damp, and wet location
- Two configurations for HBG-60 (constant current mode):
Blank-Type: Enclosed type (plastic enclosure); **P-Type:** PCB type
- Multiple models for HBG-100/160/240 (aluminum case)
A-Type: IP65 rated. Constant current level can be adjusted through internal potentiometer
B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
Blank-Type: IP67 rated. Cable for I/O connection
E-Type(option): IP67 rated. Can be fixed by steel support, contact MEAN WELL for details (HBG-100/160 only)
- 5 years warranty

HBG-60 Series

UL/CUL/ENEC/CE pending

Model No.	Output	Io Tol.	Effi.
HBG-60-1050 ○	37~55V, 1050mA	±5%	91%
HBG-60-1400 ○	28~43V, 1400mA	±5%	90%
HBG-60-2100 ○	19~29V, 2100mA	±5%	89%

○ = Blank, P; Blank: Enclosed type, P: PCB type

HBG-100 Series

UL (for 24V/36V) UL (for 48V/60V) CBCE

Model No.	Output	Tol.	Effi.
HBG-100-24(A)	24V, 0~4A	±2%	90.5%
HBG-100-36(A)	36V, 0~2.7A	±2%	91.0%
HBG-100-48(A)	48V, 0~2A	±2%	91.0%
HBG-100-60(A)	60V, 0~1.6A	±2%	91.5%

○ = A, B, E or Blank

HBG-160 Series

UL CBCE

Model No.	Output	Tol.	Effi.
HBG-160-24(A)	24V, 0~6.5A	±2%	92.0%
HBG-160-36(A)	36V, 0~4.4A	±2%	92.0%
HBG-160-48(A)	48V, 0~3.3A	±2%	93.0%
HBG-160-60(A)	60V, 0~2.6A	±2%	93.5%

○ = A, B, E or Blank

HBG-240 Series

UL CBCE

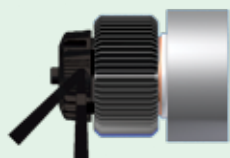
Model No.	Output	Tol.	Effi.
HBG-240-24(A)	24V, 0~10A	±2%	92.5%
HBG-240-36(A)	36V, 0~6.7A	±2%	92.5%
HBG-240-48(A)	48V, 0~5A	±2%	93.0%
HBG-240-60(A)	60V, 0~4A	±2%	93.5%

○ = A, B or Blank

Construction of High Bay Light with HBG-100/160/240

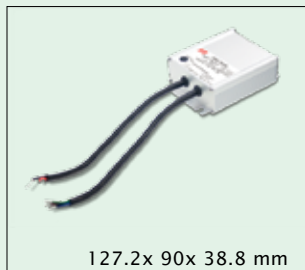


Installations with HBG-100/160/240

Spot Light	Stage Light	High Bay Light		
				
			Chain Type	Hanger Type

HSG/ULP series & Surge Protection Device

HSG-70 series 70W Rectangular Metal Case



127.2x 90x 38.8 mm

- Universal AC input (up to 305VAC)
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- Output current adjustable through internal potentiometer
- IP65 design
- Cooling by free air convection
- Suitable for LED lighting and moving sign applications
- 3 years warranty

AC input voltage range		90~305VAC; 127~431VDC
Current adjustment range		60%~100%
Over current protection		95%~108% constant current limiting
Over voltage protection		112%~140% rated output voltage
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature		-40~+70℃ (refer to output derating curve)
Safety standards		Design refer to UL 8750, EN61347-1, EN61347-2-13
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61547, EN61000-4-2,3,4,5,6,8,11
Connection	Input	CCC 1.5mm²x2C (30cm)
	Output	H05RN-F 1.0mm²x3C (30cm)

Model No.	Output	Tol.	R&N	Effi.
HSG-70-12	12V, 0~5A	±2.5%	150mV	88%
HSG-70-18	18V, 0~4A	±2.0%	200mV	89%
HSG-70-24	24V, 0~3A	±1.0%	200mV	89%
HSG-70-36	36V, 0~2A	±1.0%	200mV	90%
HSG-70-48	48V, 0~1.5A	±1.0%	200mV	90%

ULP-150 series 150W U-Bracket Single Output with PFC



215x 67.4x 33 mm

- Universal AC input (up to 295VAC)
- Built-in active PFC function
- High efficiency up to 93%
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature
- **Constant voltage mode**
- Cooling by free air convection
- U-bracket low profile: 33mm
- 3 years warranty

AC input voltage range	90~295VAC; 127~417VDC
AC inrush current (max.)	Cold start, 65A at 230VAC
Overload protection	130%~185% hiccup mode, auto-recovery
Over voltage protection	110%~135% rated output voltage
Setup, rise, hold up time	500ms, 100ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	Design refer to UL8750, EN61347-1, EN61347-2-13
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61547, EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
ULP-150-12	12V, 0~12.5A	±2%	100mV	91.5%
ULP-150-15	15V, 0~10A	±2%	150mV	91.5%
ULP-150-24	24V, 0~6.3A	±2%	150mV	93.0%
ULP-150-36	36V, 0~4.2A	±2%	250mV	93.0%
ULP-150-48	48V, 0~3.2A	±2%	250mV	93.0%

SPD-20

20kA Surge Protection Device



90x 70x 50 mm

- UL1449 3rd Edition, Type 2 component assemblies
- Line to Ground & Line to Line protected
- Parallel (3 wires) connection style
- LED status indicators
- IP67 design
- Suitable for surge protection of LED drivers



(SPD-20-240P)

Model No.	SPD-20-240P		SPD-20-277P
Operating voltage	240VAC, 50/60Hz		277VAC, 50/60Hz
MCOV (Max. Continuous Operating Voltage)	300VAC		320VAC
VPR (Voltage Protection Rating)	≤1500V (L-FG, N-FG, L-N)		
IN (Nominal Discharge Current)	5kA		
Max. Surge Current (8/20μs)	20kA		
SCCR (Short Circuit Current Rating)	5kA		
Response time	<25ns		
Operating temperature	-40~+70°C		
Safety standard	UL1449 3 rd Edition, TUV EN61643-11 approved		UL1449 3 rd Edition approved
Connection	L (Black)	FEP 10AWG (15cm)	
	N (White)		
	FG (Green)		

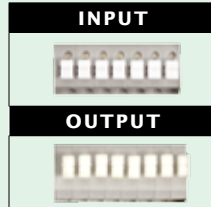
DALI to PWM Converter & DC/DC Driver

DAP-04

4 Channel DALI to PWM Converter



165x 46x 23 mm

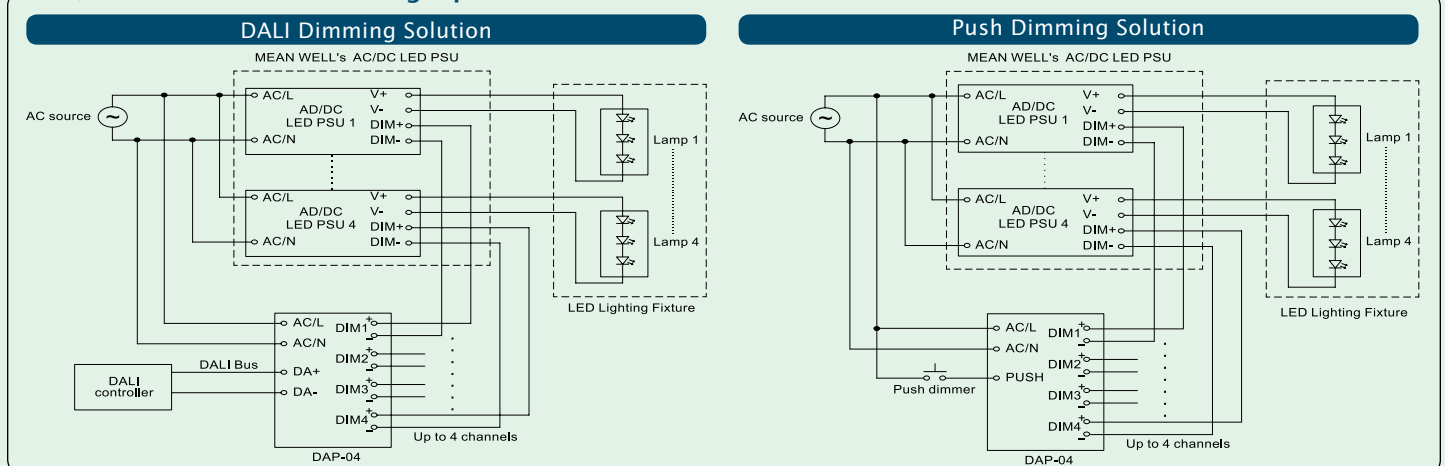


- Universal AC input (up to 305VAC)
- **Convert DALI signal to PWM signal**
- 4 DALI addressable output channels
- Built-in push dim function
- Dimming range: 1~100%
- Comply with DALI standards (IEC62386-101,102,207)
- PWM active high or active low selectable
- Linear or logarithm dimming curve selectable (comply with IEC62386-207)

- Built-in relay for ON/OFF control of LED PSU
- Fully isolated plastic case
- Class II power unit, no FG
- Power consumption < 0.5W
- Suitable to use along with MEAN WELL's AC/DC LED PSU with 3-in-1 dimming function
- 3 years warranty

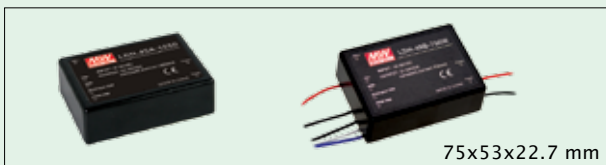
AC input voltage range	90~305VAC ; 127~431VDC
Power consumption(typ.)	0.5W
Input signal	DALI or push dim
Output signal	PWM, 1 KHz
Output channel	4 channels
Output PWM logic	Active high or active low selectable by jumper (Factory setting is active high)
Working temperature	-30~+60°C (refer to output derating curve)
Safety standards	EN61347-1, EN61347-2-11, EN61058-1 clause 8/17/20/25 approved
DALI standards	Comply with IEC62386-101, 102, 207
EMC standards	EN55015, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61547

Connection of Dimming Operation



LDH-45 Series

DC-DC Constant Current LED Driver



75x53x22.7 mm

- **Constant current step-up LED driver**
- Wide input and output voltage range
- High efficiency up to 95%
- PWM + analog dimming and remote ON/OFF control
- Protections: Short circuit / Over voltage / Under voltage
- Cooling by free air convection
- Operating temperature range: -40~+70°C
- Fully enclosed plastic case (UL 94V-0)
- 3 years warranty



Output current accuracy	±5%
PWM dimming & ON/OFF control	Remote ON/OFF: Leave open if not used ■ Power ON with dimming: DIM ~ DIM- > 2~8VDC or open circuit ■ Power OFF: DIM ~ DIM- < 0.5VDC or short PWM frequency: 1K~10KHz
Analog dimming & ON/OFF control	Remote ON/OFF: Leave open if not used ■ Power ON with dimming: Analog DIM ~ DIM- > 0.25~8VDC or open circuit ■ Power OFF: Analog DIM ~ DIM- < 0.2VDC or short
Short circuit protection	Power OFF and fuse open
Over voltage protection	>116% rated output voltage
Working temperature	-40~+70°C (refer to output derating curve)
EMC standards	EN55015, EN61547, EN61000-4-2,3,4,6,8

LDH-45A Series

Model No.	Input (VDC)	Output Voltage (VDC)	Output Current (mA)	Io Tol.	Effi.
LDH-45A-350	9~18	12~86	350mA	±5%	91%
LDH-45A-500	9~18	12~86	500mA	±5%	90%
LDH-45A-700	9~18	12~64	700mA	±5%	90%
LDH-45A-1050	9~18	12~43	1050mA	±5%	91%

LDH-45B Series

Model No.	Input (VDC)	Output Voltage (VDC)	Output Current (mA)	Io Tol.	Effi.
LDH-45B-350	18~32	21~126	350mA	±5%	93%
LDH-45B-500	18~32	21~86	500mA	±5%	94%
LDH-45B-700	18~32	21~64	700mA	±5%	95%
LDH-45B-1050	18~32	21~43	1050mA	±5%	95%

□ = Blank, W ; Blank: pin style, W: wire style

□ = Blank, W ; Blank: pin style, W: wire style

LDD-L series

DC-DC Constant Current LED Driver

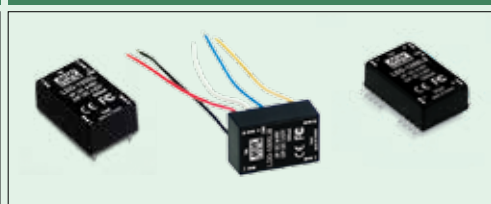
Features

- Constant current step-down LED driver
- Wide input and output voltage range
- High efficiency up to 95%
- Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- 300~700mA: PWM dimming and remote ON/OFF control
1000~1500mA: PWM + analog dimming and remote ON/OFF control
- Protections: Short circuit / Over temperature (300~700mA only)
- Compact size
- Operating temperature range:
300 ~ 700mA: -40~+85°C
1000~1500mA: -40~+71°C
- Cooling by free air convection
- Fully enclosed plastic case (UL 94V-0)
- Low cost, high reliability
- 3 years warranty

LDD-300~700L/LW/LS



LDD-1000~1500L/LW/LS



Output current accuracy		±5% at 24VDC input	
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used ▪ Power ON with dimming: DIM ~ -Vin >3.5~8VDC or open circuit ▪ Power OFF: DIM ~ -Vin <0.5VDC or short	▪ Power ON with dimming: DIM ~ -Vin >2.6~5.5VDC or open circuit ▪ Power OFF: DIM ~ -Vin <0.4VDC or short
	PWM frequency	100~1KHz	100~500Hz
Analog dimming & ON/OFF control	Remote ON/OFF	Non	Leave open if not use ▪ Power ON with dimming: DIM ~ -Vin >0.5~2.5VDC or open circuit ▪ Power OFF: DIM ~ -Vin <0.4VDC or short
Short circuit protection		Regulated at rated output current, can be continued, auto-recovery	
Over temp.protection		Shut down, recovers automatically after temperature goes down	Non
Working temperature		-40~+85°C (refer to output derating curve)	-40~+71°C (refer to output derating curve)
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B	
Operating case temp. (max.)		100°C	
Dimension (LxWxH) (mm)		LDD-300~700L/LW: 22.6x 9.9x 8.9 LDD-300~700LS: 25.4x 10.5x 9.3	LDD-1000~1500L/LW: 31.8x 20.3x 12.2 LDD-1000~1500LS: 31.8x 20.3x 10.9

LDD-L Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.	Dimming
		Voltage (VDC)	Current (mA)			
LDD-300L □	9~36 (LDD-300~700LS: 9~32)	2~32 (LDD-300~700LS: 2~28)	300	±5%	95%	PWM
LDD-350L □			350			
LDD-500L □			500			
LDD-600L □			600			
LDD-700L □			700			
LDD-1000L □	6~36	2~30	1000			PWM + Analog
LDD-1200L □			1200			
LDD-1500L □			1500			

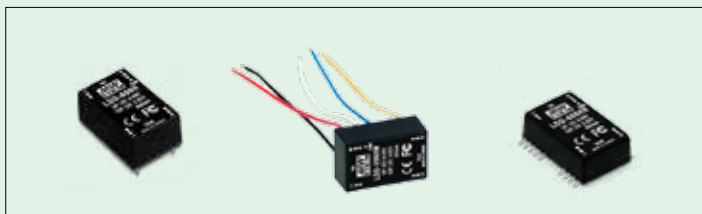
□ = Blank, W, S ; Blank: pin style, W: wire style, S: SMD style

LDD-H&L LDB-L series

DC-DC Constant Current LED Driver

LDD-H/HW/HS

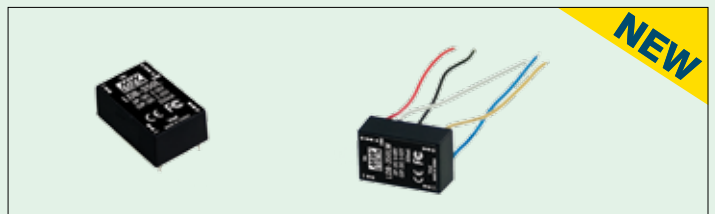
- Constant current step-down LED driver
- Wide input and output voltage range
- High efficiency up to 97%
- Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- PWM dimming and remote ON/OFF control
- Protections: Short circuit / Over temp.
- Compact size
- Operating temperature range: -40~+85°C
- Cooling by free air convection
- Fully enclosed plastic case (UL 94V-0)
- 3 years warranty



Output current accuracy		±3% at 24VDC input; ±4% at 48VDC input for LDD-H/HW; ±5% at 48VDC input for LDD-HS
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used
		▪ Power ON with dimming: DIM ~ -Vin >2.5~6VDC or open circuit ▪ Power OFF: DIM ~ -Vin <0.8VDC or short
	PWM frequency	100~1KHz
Short circuit		Regulated at rated output current, can be continued, auto-recovery
Over temperature protection		Shut down, recovers automatically after temperature goes down
Working temperature		-40~+85°C
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B
Operating case temp. (max.)		100°C
Dimension (LxWxH)(mm)		LDD-H/HW: 31.8x 20.3x 12.2 LDD-HS: 31.8x 20.3x 10.9

LDB-L/LW

- Constant current buck-boost LED driver
- Wide input and output voltage range
- High efficiency up to 90%
- Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- PWM dimming and remote ON/OFF control
- Protections: Short circuit / Over temp.
- Operating temperature range: -40~+71°C
- Cooling by free air convection
- Fully enclosed plastic case (UL 94V-0)
- 3 years warranty



Output current accuracy		±5%
PWM dimming & ON/OFF control	Remote ON/OFF	Leave open if not used
		▪ Power ON with dimming: DIM ~ -Vin >2~5VDC or open circuit ▪ Power OFF: DIM ~ -Vin <0.1VDC or short
	PWM frequency	1 KHz
Short circuit		Regulated at rated output current, can be continued, auto-recovery
Over temperature protection		Shut down, recovers automatically after temperature goes down
Working temperature		-40~+71°C
EMC standards		EN55015, EN61547, EN61000-4-2,3,4,6,8, FCC part 15 class B
Operating case temp. (max.)		110°C
Dimension (LxWxH)(mm)		31.8x 20.3x 12.2

LDD-H Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.
		Voltage (VDC)	Current (mA)		
LDD-300H□	9~56	2~52	300	±4%	97%
LDD-350H□	9~56	2~52	350	±4%	97%
LDD-500H□	9~56	2~52	500	±4%	97%
LDD-600H□	9~56	2~52	600	±4%	97%
LDD-700H□	9~56	2~52	700	±4%	97%
LDD-1000H□	9~56	2~52	1000	±4%	97%

□ = Blank, W, S ; Blank: pin style, W: wire style, S: SMD style

LDB-L Series



Model No.	Input (VDC)	Output		Io Tol.	Effi.
		Voltage (VDC)	Current (mA)		
LDB-300L□	9~36	2~40	300	±5%	90%
LDB-350L□	9~36	2~40	350	±5%	90%
LDB-500L□	9~30	2~32	500	±5%	90%
LDB-600L□	9~28	2~30	600	±5%	90%

□ = Blank, W ; Blank: pin style, W: wire style

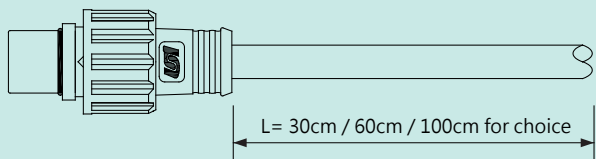
Waterproof Output Connector

Female Waterproof Output Connector (Power supply side)

Waterproof Connector	Pin Configuration (Female)							
	M12		M15		M20.5		M20.8	
		Order No. : M12-02		Order No. : M12-04		Order No. : M15-02		Order No. : M20.5-02
	2-pin (5A/PIN)	Suitable Current : 5A max.	4-pin (5A/PIN)	Suitable Current : 10A max.	2-pin (12A/PIN)	Suitable Current : 12A max.	2-pin (20A/PIN)	Suitable Current : 20A max.

- ▶ The output cable can be modified to include different waterproof connectors by MEAN WELL. Minimum order quantity may vary for different models.
- ▶ We would suggest you to order the configurations of "M15 connector with length of 20cm / 30cm / 45cm / 60cm / 80cm / 100cm cables" due to its cost effectiveness and fast delivery. Ordering other connector type or cable lengths will have higher cost and longer lead-time.
- ▶ Suitable for CLG / HLG / HLG-C / HVG(C) / HBG / CEN / HSG / HLN / LPF / NPF / PWM / OWA series.

Male Waterproof Output Connector with Cable (System side)

Figure	Drawing
	 L= 30cm / 60cm / 100cm for choice

- ▶ MEAN WELL offers male waterproof connectors with cable length of 30cm, 60cm, and 100cm as our standard mating accessories. These mating accessories need to be ordered together with PSU. For other length or cable style, the higher MOQ requirement and long lead-time will be expected. Please consult MEAN WELL for details.

Order No.

M12-02M-30-U1-UN

① ② ③ ④ ⑤ ⑥

Connector Type: Male / Female

①	M12	M15	M20.5	M20.8
	UN & CH	UN & CH	UN only	CH only

No. of PIN

②	2P	4P	M15, M20.5 and M20.8 only have 2-pin choice
	2pin	4pin	

③	M	F
	Male (System Side)	Female (PSU Side)

Cable Length: Male with Cable

④	30	60	100
	30cm	60cm	100cm

Cable Length: Female with Cable

	20	30	45	60	80	100
	20cm	30cm	45cm	60cm	80cm	100cm

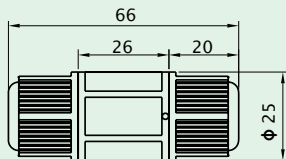
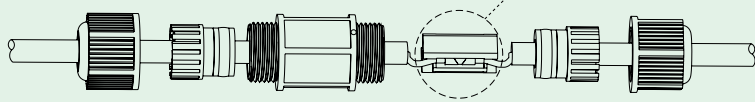
Cable Type

⑤	U1	E1
	SJTW (USA)	H05RN-F (EURO)

Brand Name

⑥	UN	CH
	UNICABLE (Made in Taiwan)	CHOGORI (Made in China)

Waterproof Cable Joiner

	 66 26 20 φ25
Order No. : CJ04-1 CJ04-2	 CJ04-1 suitable for 14AWG~16AWG CJ04-2 suitable for 18AWG~22AWG Up to four wires can be connected through this cable joiner by soldering or clamping by tools.

- ▶ CJ04 cable joiner can be purchased independently for user's own assembly.

How to Choose A Suitable LED Power Supply?

- Decide a suitable wattage level, including safety margin.
- Verify your design of LED driving circuit: direct drive by PSU [choose a constant current (C.C.) mode LED power supply] or add additional driving IC to get a more precise constant current level [choose LDD, LDH or LDB].
- Verify whether the application need PFC function.
- Verify location of assembly and the required level against dust and humidity for the LED power supply (enclosure style, IP level, dry/damp/wet location).
- Verify the required safety certificates.
- Need to adjust the output voltage and/or output current or need the dimming function ?

► Suggested System Design

Setting	Circuit Diagram	Description	Advantage & Disadvantage
Use constant current (C.C.) mode power supply only		Using MEAN WELL's C.V. + C.C. mode or C.C. mode LED power supply as constant current source and feed the LED arrays directly. MEAN WELL product: APC / LPC / ELN / PLN / PLC / LPF / NPF / OWA / HLN / GSC / PLD / PLM / CLG / CEN / HLG / HLG-C / HSG / HVG / HVGC / HBG / PLP / HLP / LCM families	Advantage • Simplest design, no need LED driver IC • Lower price • Higher efficiency with the best lumen per watt(lm/w) Disadvantage • Unbalanced driving current and shorter LED life time • LED chips should be sorted for similar VF
Use constant voltage (C.V.) mode power supply with DC-DC LED driver		Using AC/DC C.V. mode LED power supply and separate DC/DC LED drivers. MEAN WELL product: Any AC/DC LED power supply + LDD, LDH or LDB series (DC/DC LED driver)	Advantage • Independent output channels, the most balanced current for paralleled LED strips • No need to sort the VF of LED • Longer LED lifetime • Failures in any string do not affect the other strings Disadvantage • Higher price • Complicated circuit design • Lower system efficiency • Larger in power supply volume

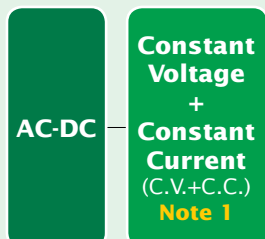
Quick Selection Map

Note 1

At the moment of power on, the LED power supply will work in C.V. mode and can provide a peak output current; after the LED turns on, the LED power supply will go into C.C. mode.

Note 2

The C.C. only LED power supplies are suitable for directly driving LED modules, but not suitable for connecting with additional DC-DC LED drivers.



PFC

Metal Case

Plastic Case

Non-PFC

Plastic Case

AC-DC

Constant Current (C.C.)
Note 2

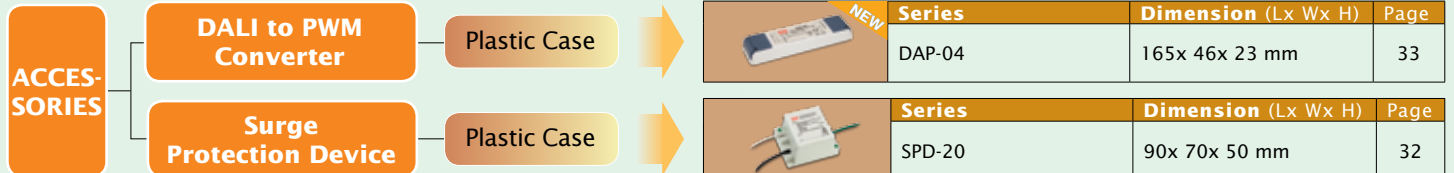
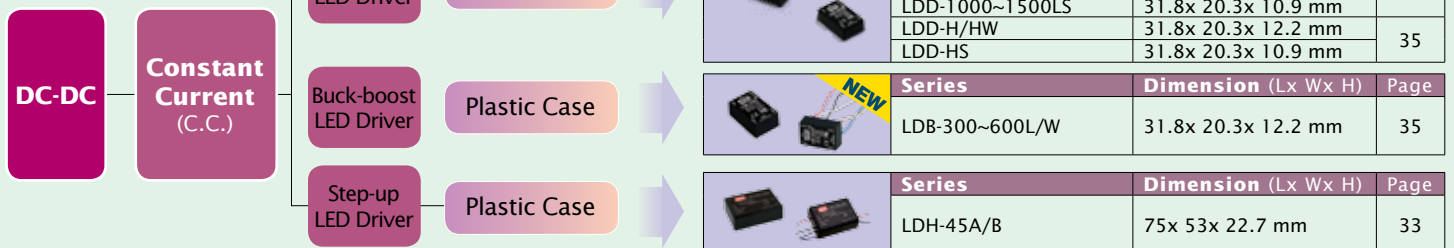
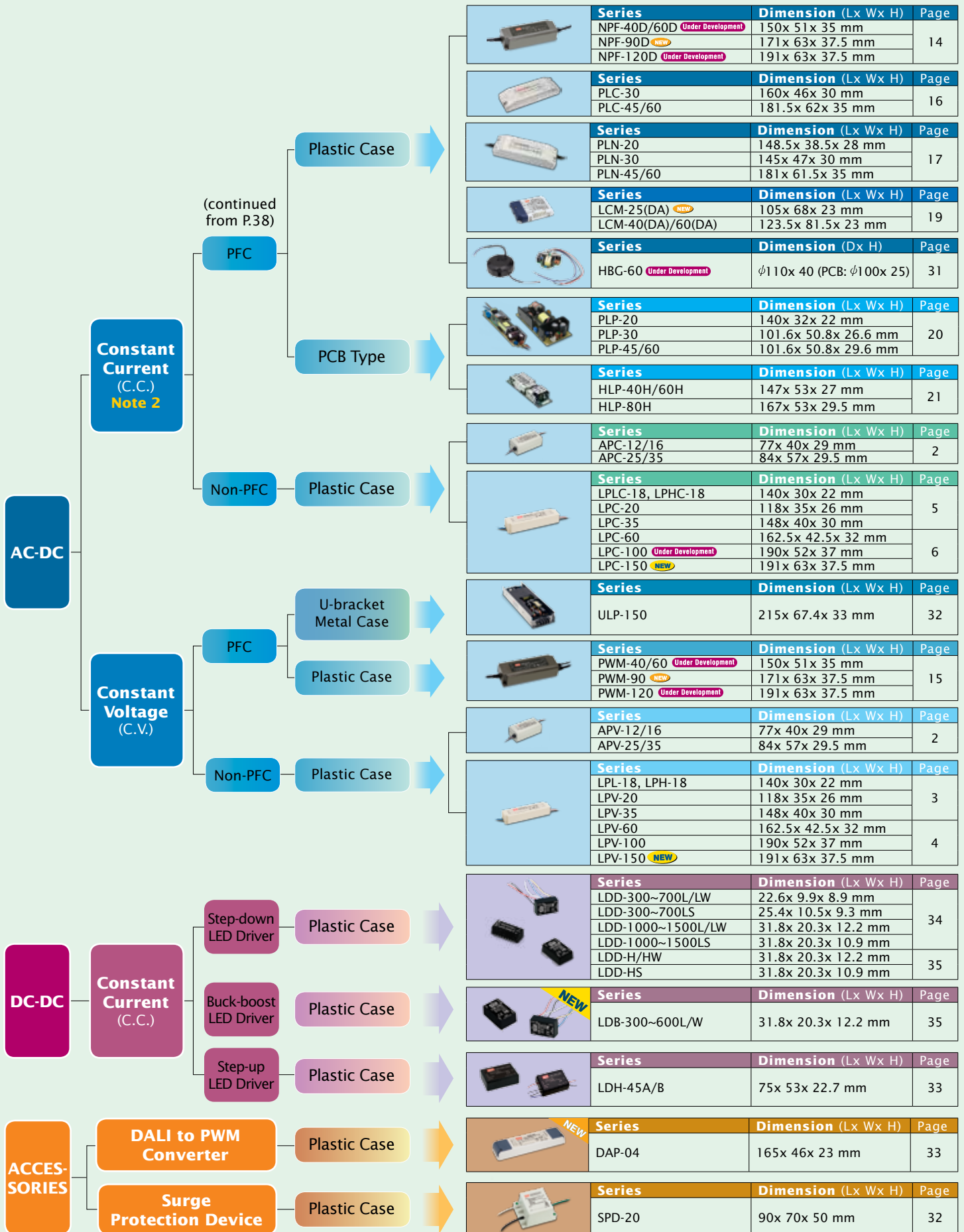
PFC

Metal Case

Plastic Case

Series	Dimension (Lx Wx H)	Page
CLG-100	222.2x 68x 38.8 mm	23
CLG-150	229x 68x 38.8 mm	
Series	Dimension (Lx Wx H)	Page
HLG-40H/60H	171x 61.5x 36.8 mm	24
HLG-80H	195.6x 61.5x 38.8 mm	25
HLG-100H/120H	220x 68x 38.8 mm	
HLG-150H/185H	228x 68x 38.8 mm	26
HLG-240H	251x 68x 38.8 mm	27
HLG-320H	252x 90x 43.8 mm	
HLG-600H NEW	280x 144x 48.5 mm	
Series	Dimension (Lx Wx H)	Page
HVG-65 NEW	189x 61.5x 36.8 mm	29
HVG-100	236x 68x 38.8 mm	
HVG-150	245x 68x 38.8 mm	
Series	Dimension (Dx H)	Page
HBG-100	φ130x 66.5	31
HBG-160	φ151.68x 66.5	
HBG-240	φ191.5x 69	
Series	Dimension (Lx Wx H)	Page
HSG-70	127.2x 90x 38.8 mm	32
Series	Dimension (Lx Wx H)	Page
OWA-90E/U NEW	171x 63x 37.5 mm	9
OWA-120E/U Under Development	191x 63x 37.5 mm	
Series	Dimension (Lx Wx H)	Page
LPF-16/25	148x 40x 32 mm	13
LPF-40/60	162.5x 43x 32 mm	
LPF-90	161x 61x 36 mm	
Series	Dimension (Lx Wx H)	Page
NPF-40/60 Under Development	150x 51x 35 mm	14
NPF-90 NEW	171x 63x 37.5 mm	
NPF-120 Under Development	191x 63x 37.5 mm	
Series	Dimension (Lx Wx H)	Page
PLC-100	200.5x 69.5x 35 mm	16
Series	Dimension (Lx Wx H)	Page
PLN-100	200x 70.5x 35 mm	17
Series	Dimension (Lx Wx H)	Page
HLN-40H/60H	161x 61.5x 35 mm	18
HLN-80H	181x 61.5x 35 mm	
Series	Dimension (Lx Wx H)	Page
ELN-30	145x 47x 30 mm	7
ELN-60	181x 61.5x 35 mm	
Series	Dimension (Lx Wx H)	Page
OWA-60E/U Under Development	130x 53x 35 mm	9
Series	Dimension (Lx Wx H)	Page
CEN-60/75	185x 62.5x 40.5 mm	22
CEN-100	195x 62.5x 40.5 mm	
Series	Dimension (Lx Wx H)	Page
CLG-60	195.6x 61.5x 38.8 mm	23
Series	Dimension (Lx Wx H)	Page
HLG-60H-C	171x 61.5x 36.8 mm	28
HLG-80H-C	195.6x 61.5x 38.8 mm	
HLG-120H-C	220x 68x 38.8 mm	
HLG-185H-C	228x 68x 38.8 mm	
Series	Dimension (Lx Wx H)	Page
HVGC-65 NEW	189x 61.5x 36.8 mm	30
HVGC-100	236x 68x 38.8 mm	
HVGC-150	245x 68x 38.8 mm	
Series	Dimension (Lx Wx H)	Page
GSC18/25/40 Under Development	79x 54x 33 mm	8
Series	Dimension (Lx Wx H)	Page
PCD-16/25	84x 57x 29.5 mm	10
PCD-40/60	128x 60x 31.5 mm	
PLD-16/25	84x 57x 29.5 mm	11
PLD-40/60	128x 60x 31.5 mm	
Series	Dimension (Lx Wx H)	Page
PLM-12/25	145x 38x 22 mm	12
PLM-40	175x 42x 24 mm	
Series	Dimension (Lx Wx H)	Page
LPF-16D/25D	148x 40x 32 mm	13
LPF-40D/60D	162.5x 43x 32 mm	
LPF-90D	161x 61x 36 mm	

Quick Selection Map



Comparison Chart

Family		PFC (Note 2)		AC Input Range (VAC)	Potted	C.C. or C.V. (Note 1)	IP	Dimming (Note 3)	Vo / Io Adj	Max. Eff.	Warranty (years)	Remark	
Series Name	Type (Note 4)	Single Stage	Two Stage										
HLG-40H / 60H / 80H / 100H / 120H / 150H / 185H / 240H / 320H / 600H	A ★		✓	90~305	✓	C.V.+C.C.	65		✓	96%	5	Vo<60VDC	
	B						67	3 in 1					
	C (240W/320W only)								✓				
	Blank (40W~320W)						67						
	D (option, 40~320W)						67	Timer					
HLG-60H-C / 80H-C / 120H-C / 185H-C	A ★		✓	90~305	✓	C.C.	65		Io	94%	5	Vo>60VDC	
	B						67	3 in 1					
	D (option)						67	Timer					
HBG	60	Blank (enclosed)	✓	90~295	✓ (half)	C.C.			Io	91%	5	Circular shape	
		P (PCB)											
	100 / 160 / 240	A	✓	90~305	✓	C.V.+C.C.	65		Io	93.5%			
		B					67	3 in 1					
		Blank					67						
		E (option, 100W/160W only)					67						
HVG(C)-65 / 100 / 150	A ★		✓	180~528	✓	HVG : C.V.+C.C. HVG C : C.C.	65		HVG: ✓ HVG C: Io	91.5%	5		
	B						67	3 in 1					
	D (option)						67	Timer					
HSG-70			✓	90~305	✓	C.V.+C.C.	65		Io	90%	3		
CLG-150	A ★		✓	90~295	✓	C.V.+C.C.	65		✓	91%	3		
	B						67	Resistance					
	C								✓				
	Blank						67						
CLG-100			✓	90~295	✓	C.V.+C.C.	67			88.5%	3		
CLG-60		✓		90~295	✓	C.C.	67			89%	3		
CEN-60 / 75 / 100		✓		90~295		C.C.	66		✓	91%	3		
ULP-150			✓	90~295	✓ (half)	C.V.			Vo	93%	3	U-bracket	
HLN-40H / 60H / 80H	A		✓	90~305	✓ (60W/80W half)	C.V.+C.C.	64		✓	91%	3		
	B							3 in 1					
LPF-16□ / 25□ / 40□ / 60□ / 90□	D		✓	90~305	✓	Blank Type : C.V.+C.C. D-Type : C.C.	67 (16W option)	3 in 1		90.5%	5		
	Blank												
NPF-40□ / 60□ / 90□ / 120□	D		✓	90~305	✓	Blank Type : C.V.+C.C. D-Type : C.C.	67	3 in 1		91%	5		
	Blank												
PWM-40 / 60 / 90 / 120			✓	90~305	✓	C.V.	67	0~10Vdc & PWM		91%	5	PWM output	
OWA- 90 / 120			✓	90~264	✓	C.V.+C.C.	67*			91%	5	External type	

Comparison Chart

Family		PFC (Note 2)		AC Input Range (VAC)	Potted	C.C. or C.V. (Note 1)	IP	Dimming (Note 3)	Vo / Io Adj	Max. Eff.	Warranty (years)	Remark
Series Name	Type (Note 4)	Single Stage	Two Stage									
PLN-100			✓	90~295		C.V.+C.C.	64		✓	88.5%	2	
PLN-30 / 45 / 60		✓		90~295		C.C.	64		✓	89%	2	
PLN-20		✓		90~277		C.C.	64		Io	83.5%	2	
PLC-100			✓	90~264		C.V.+C.C.			✓	90%	2	Terminal block I/O
PLC-30 / 45 / 60		✓		90~264		C.C.			✓	89%	2	Terminal block I/O
PCD-16 / 25 / 40 / 60		✓		A: 90~135 B: 180~295	(16W/25W/60W half) ✓	C.C.	30	AC Phase-Cut		87%	3	
PLD-16 / 25 / 40 / 60		✓		16W/40W/60W: A: 90~135 B: 180~295	(16W/25W/60W half) ✓	C.C.	30			88%	3	
				25W: 90~295								
GSC18 / 25 / 40		✓		90~277	(40W half)	C.C.	30			88%	3	External type
PLM-12 / 25 / 40		✓		110~295		C.C.	30			88%	2	Push terminal
LCM-25 / 40 / 60		✓		25W: 180~277 40W/60W: 180~295		C.C.	20	0~10Vdc & PWM		92%	3	Io level selectable in one power unit
LCM-25DA / 40DA / 60DA								DALI & Push DIM				
PLP-20 / 30 / 45 / 60		✓		20W: 90~277 30~60W: 90~264		C.C.			Io	89%	2	PCB type
HLP-40H / 60H / 80H			✓	90~305		C.C.		3 in 1	✓	90.5%	3	PCB type
OWA-60				90~264	✓	C.V.+C.C.	67*			91%	5	External type
ELN-30 / 60				90~264		C.V.+C.C.	64	1.1~10Vdc or PWM	✓	88%	2	
LPL-18 / LPH-18 LPV-20 / 35 / 60 / 100 / 150				LPL: 90~132 LPH: 180~264 LPV-20~100: 90~264 LPV-150: 180~305	✓	C.V.	67			90%	2	
LPLC-18 / LPHC-18 LPC-20 / 35 / 60 / 100 / 150				LPLC: 90~132 LPHC: 180~264 LPC-20~60: 90~264 LPC-150: 180~305	✓	C.C.	67			90%	2	
APC-12 / 16 / 25 / 35				90~264	(16W/35W half) ✓	C.C.	30			84%	2	
APV-12 / 16 / 25 / 35				90~264	(16W/35W half) ✓	C.V.	30			85%	2	

Note 1 C.V. represents Constant Voltage Mode Output, whereas C.C. represents Constant Current Mode Output. For C.V.+C.C., C.C., and C.V. operations, please refer to Application Q&A section on MEAN WELL LED website. (The C.C. only LED power supplies are suitable for directly driving LED modules, but not suitable for connecting with additional DC-DC LED drivers.)

Note 2 ■ Single-Stage PFC : No hold-up time and higher Ripple & Noise. Not recommended to use in regions with unstable utility.
 ■ Two-Stage PFC : Longer hold-up time and lower Ripple & Noise. Suitable for LED lighting and general industrial applications.
 ■ Non-PFC : PF<0.6 and target at regions where PF compliance is not required.

Note 3 3-in-1 dimming: 1~10Vdc, PWM signal, or resistance. Timer: Timmer dimming function, please contact MEAN WELL for details.

Note 4 ★ are popular models and will have sufficient stock for prompt delivery of high quantity orders.

Note 5 * IP67 design for main body



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