

TECHNICAL DATA

MODEL 6050C

UNIPLY® UNIVERSAL DC POWER SOURCE

**0-6 V at 5 A
0-15 V at 3 A
0-30 V at 2 A
0-60 V at 1 A**

with

Digital Panel Meter



features:

- Constant Voltage/Constant Current with automatic crossover
- UNIPLY Technique provides increased output current at lower output voltages
- Power Supply provides increased output power at input line voltages above 105 VAC
- A 4 Digit Display permits reading of the output voltage with an accuracy of 0.1V + 1 digit or output current with an accuracy of 20 MA + 1 digit and a resolution of 10MA. A Mode digit in the Display indicates constant voltage ("E") operation or constant current ("I") operation. Alternating "E"/"I" display indicates power supply overload.
- Panel Adjustable overvoltage crowbar operates to short circuit the Power Supply output in less than 200 microseconds at any output voltage above a present level
- Ten-turn potentiometers for voltage and current control with increased resolution
- Positive or Negative output polarity
- Front or Rear access terminals
- Remote Sensing or Remote Programming

electrical specifications:

INPUT: 105-125 volts, 47-440 Hz, 100W nominal at 115V line. 210-250 volts option available.
OUTPUT: 0-60 VDC, continuously adjustable with the following minimum output levels: 0-6V, 0-5A; 0-15V, 0-3A; 0-30V, 0-2A; 0-60V, 0-1A. Increased outputs are available at input line voltages above minimum.
POLARITY: Positive or negative output terminal may be grounded or the supply may be floated up to 200 VDC between any output terminal and chassis.
TEMPERATURE: 0-50°C, derated 3% (current) per °C from 50°C to 75°C. Storage: -20°C to 85°C.
VOLTAGE CONTROL: Ten turn potentiometer provides continuous adjustment from zero to 60 volts, with a resolution better than 20 mV.
CURRENT CONTROL: Ten turn potentiometer provides continuous output current control from zero to 5A, with a resolution better than 2 mA.
DIGITAL DISPLAY: Provides metering and indicates operating mode of the power supply.
OVERVOLTAGE CROWBAR: 2.5-70V panel mounted adjustable crowbar operates to short circuit the output of the supply in less than 200 microseconds at any output voltage in excess of a preset level.
CONSTANT VOLTAGE MODE
REGULATION: Less than 0.005% + 1mV for load or line changes within the ratings of the supply when measured at the junction of load and sense leads or at the rear terminals of the supply.
RIPPLE AND NOISE: Less than one millivolt peak to peak up to 10 MHz at input line frequencies of 47-63 Hz.
STABILITY: Less than 0.01% + 5 millivolts per 24 hours at constant line, load and ambient temperature after warm up.
TEMPERATURE COEFFICIENT: Less than 0.01% + 0.5 mV per °C.
RECOVERY TIME: Output voltage will return to within a 50 millivolt band of the original setting within 50 microseconds for a step load change within 10% and 100% of rating.
SOURCE IMPEDANCE: Less than .002 ohms at DC, 0.1 ohms at 20 KHz, 1.0 ohms at 1 MHz.
CONSTANT CURRENT MODE
REGULATION: Less than 1 milliampere at any current setting for load resistance variations or for input line variations within the ratings of the supply.
RIPPLE AND NOISE: Less than 5 milliamperes peak to peak.
STABILITY: Less than 0.05% + 1 milliampere per 24 hours at a constant line, load and temperature after warm up.
TEMPERATURE COEFFICIENT: Less than 0.03% + 300 microamperes per °C.
SOURCE IMPEDANCE: In excess of 100,000 ohms at DC.
REMOTE VOLTAGE PROGRAMMING: With external programming resistor: 160 ohms/volt (approx).
REMOTE CURRENT PROGRAMMING: With external programming resistor: 400 ohms/amp (approx).

mechanical specifications:

DIMENSIONS: 8 $\frac{1}{4}$ " x 4 $\frac{3}{4}$ " x 8 $\frac{15}{16}$ " deep behind front panel mounting surface.

WEIGHT: 15 pounds.

®PAT: 3,699,352

POWER DESIGNS

POWER DESIGNS INC.
1700 SHAMES DRIVE ■ WESTBURY, N.Y. 11590
Tel: 516-333-6200 ■ TWX 510-222-6561

POWER DESIGNS PACIFIC INC.
3381 MIRANDA AVENUE ■ PALO ALTO, CALIF. 94304
Tel: 415-493-6111 ■ TWX 910-373-1251



INSTRUCTION MANUAL

MODEL 6050C SERIAL

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A P P E N D I X

1. INTRODUCTION

This Appendix contains an Electrical Parts List, Schematic Diagram, Parts Location Diagram and equipment Warranty.

2. ELECTRICAL PARTS LIST

All electrical and electronic parts are listed in the sequence of their circuit numbers as shown on the Schematic Diagram. A brief description of each part is given, followed by the code number of the manufacturer and his part number. All manufacturers' code numbers are taken from Cataloging Handbooks H4-1 and H4-2, Federal Supply Code for Manufacturers. These handbooks can be obtained from Federal Agencies or ordered directly from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

We recommend that all parts with the code number 98095 be ordered directly from Power Designs, Inc. The commercial equivalents of these parts may have wide parameter tolerances or require special factory inspection or modification before they can be used in the power supply.

All components used in the power supply or supplied as replacements are carefully inspected at the factory. Inspections are performed on a 100% basis or at AQL levels to Military Specification MIL-Q-9858 under which Power Designs, Inc. has been qualified.

All semiconductors are inspected on a 100% basis, not only for operating parameters, but also for critical characteristics related to reliability and predictable life expectancy. Some of these characteristics are observed when the device is taken beyond its normal operating regions. These test techniques have been developed under a "predictable reliability" program in operation at Power Designs, Inc. for the past twelve years. Under this program, quality control procedures are constantly reevaluated and updated as advances are made in solid state technology and experience is gained from field history.

Semiconductor manufacturers are continually modifying their products. Complete lines are discontinued to be replaced by devices having improved gain, operating voltage levels and frequency responses. The high gain, closed loop DC amplifiers used in regulator circuits are particularly sensitive to slight changes in these parameters. Commercial or military "equivalent" transistors may affect the performance of the power supply. We can assure compliance with the original specifications if replacement semiconductors are ordered from the Factory.

All replacement semiconductors are processed and stocked at the factory to insure complete interchangeability with the devices in the original equipment. These devices are coded with a Power Designs, Inc. part number. For example:

<u>MS</u>	<u>1028</u>	<u>A</u>
Semiconductor Manufacturer's Code	Power Designs, Inc. Type	Suffix Identifying Special Parameters

When ordering replacements, please identify the device as thoroughly as possible, giving the model and serial number if available.

The replacement part you receive may not have the same part number as that shown on the Electrical Parts List. This can be due to several factors:

- a. A different prefix indicates that Power Designs, Inc. is using another vendor source. The operating characteristics of the devices are identical.
- b. A completely different part number indicates:
 1. The original vendor has discontinued manufacture of the item or can no longer manufacture it to the original specifications.
 2. A better device for use in a particular circuit has been substituted.
 3. Tighter controls for interchangeability have provided greater assurance of reliability with the replacement.

MODEL 6050C

ELECTRICAL PARTS LIST

NOTE: BEFORE REPLACING SEMICONDUCTORS SEE PARAGRAPH 2 OF THIS APPENDIX

CIRCUIT NUMBER	DESCRIPTION	MFR CODE NUMBER	PART NUMBER
A1	Di, Itai Meter Assembly	98095	A79062
C1, C2, C3	Capacitor, ceramic disc, 0.1 μ f, 600 vdc	98095	CE-34-6
C4, C5	Capacitor, cer. polyatic, 200 μ f, 50 vdc	98095	CE-252-50
C6	Capacitor, electrolytic, 11,000 μ f, 15 vdc	98095	CE-113-15
C7	Capacitor, electrolytic, 12,000 μ f, 15 vdc	98095	CE-232-15
C8	Capacitor, elec. plastic, 730 μ f, 50 vdc	98095	CE-331-50
C9, C10	Capacitor, tantalum, 6.8 μ f, 35 vdc	98095	CE-6A8-.35
C11	Capacitor, tantalum, 51 μ f, 25 vdc	98095	CEX-51-25
C12	Capacitor, plastic film, 0.1 μ f, 200 vac	98095	CP-17-2
C13	Capacitor, tantalum, 33 μ f, 15 vdc	98095	CE-33-.10
C14	Capacitor, plastic film, 0.0022 μ f, 200 vdc	98095	CP-A0022-2
C15	Capacitor, ceramic disc, 0.01 μ f, 1K vdc	98095	CE-47P-102
C16	Capacitor, plastic film, 0.027 μ f, 200 vdc	98095	CP-26-2
C17	Capacitor, tantalum, 0.8 μ f, 10 vdc	98095	CE-33-.10
C18	Capacitor, electrolytic, 4.7 μ f, 150 vdc	98095	CE-4A7-101
C19	Capacitor, ceramic film, 0.01 μ f, 200 vdc	98095	CP-21-2
C20	Capacitor, tantalum, 1 μ f, 50 vdc	98095	CE-1-500
C21	Capacitor, electrolytic, 1.00 μ f, 50 vdc	98095	CE-102-50
C22	Capacitor, plastic film, 0.01 μ f, 200 vdc	98095	CP-16-2
C23, C24	Capacitor, tantalum, 1 μ f, 50 vdc	98095	CE-1-500
C25	Capacitor, plastic film, 0.01 μ f, 200 vdc	98095	CP-16-2
C26	Capacitor, tantalum, 33 μ f, 10 vdc	98095	CE-33-.10
C27	Capacitor, plastic film, 0.22 μ f, 200 vac	98095	CP-22-2
C28	Capacitor, plastic film, 0.27 μ f, 50 vdc	98095	CP-29-.5
C29	Capacitor, tantalum, 1 μ f, 50 vdc	98095	CE-1-500
C30	Capacitor, tantalum, 4.8 μ f, 15 vdc	98095	CE-6A8-.35
C31	Capacitor, plastic film, 0.0022 μ f, 200 vdc	98095	CP-A0022-2
CR1 thru CP4	Diode, silicon	98095	SI5A2
CR5	Rectifier, bridge	98095	VH247/TT
CR6	Diode, silicon	98095	SI5A2
CR7	Diode, silicon	98095	GI44
CR8	Diode, silicon	98095	SI5A2
CR9	Diode, silicon	98095	SY241N
CR10 thru CR13			
CR14	Diode, silicon	98095	GI44
CR15	Diode, silicon	98095	FS88
CR16	Diode, silicon	98095	GI44Y
CR17	Diode, silicon	98095	FS88

NUMBER	DESCRIPTION	NUMBER	NUMBER
CR13	Rectifier, complementary silicon controlled	98095	C13F
CR19, CR20	Diode, silicon	98095	GI4Y
CR21	Diode, silicon	98095	GI44
CR22	Rectifier, silicon controlled	98095	IR9918-3
CR23	Diode, silicon	98095	SI5A2
CR24	Diode, silicon	98095	FS88
CR25	Diode, silicon	98095	SI250A
DS1, DS2	Diode, Light Emitting	98095	LED-2
F1	Fuse, CA, 5A-12v, 25°C	71400	MDX-2
F2	Fuse, 6A, P.M., C7v, 22v	71400	AGC-6
Q1, Q2	Transistor, silicon, NPN	98095	MS1700G
Q3, Q4	Transistor, silicon, NPN	98095	2N6254
Q5	Transistor, silicon, NPN	98095	2N2243A
Q6, Q7, Q8	Transistor, silicon, PNP	98095	RA1023A
Q9	Transistor, silicon, NPN	98095	FS1700E
Q11, Q12	Transistor, silicon, NPN	98095	RA1023A
Q13	Transistor, silicon, NPN	98095	2N2219A
Q14	Transistor, silicon, NPN	98095	FS2270B
Q15	Transistor, silicon, NPN	98095	2N6254
R1	Resistor, wirewound, 0.47Ω, ± 5%, 7 w	98095	RW-F5-3RA
R2	Resistor, wirewound, 0.47Ω, ± 5%, 7 w	98095	RW-F2-3RA
R3	Resistor, wirewound, 0.1Ω, ± 5%, 7 w	98095	RW-F1-1RA
R4	Resistor, composition, 25 kΩ, ± 10%, 1/4 w	01121	EB3931
R5	Resistor, precision, metal film, 6.04 kΩ, ± 1%, 1/4 w	98095	RD-6041-1QA
R6	Resistor, wirewound, 0.47Ω, ± 5%, 7 w	98095	RW-361-3KA
R9	Resistor, precision, metal film, 604 Ω, ± 1%, 1/4 w	98095	RD-6040-1QA
R10, R11	Resistor, precision, metal film, 6.04 kΩ, ± 1%, 1/4 w	98095	RD-6041-1QA
R12	Resistor, precision, metal film, 0.15 kΩ, ± 5%, 1/4 w	98095	RD-8450-1QA
R13	Resistor, precision, metal film, 0.40 kΩ, ± 5%, 1/4 w	98095	RD-344-1QA
R14	Resistor, precision, metal film, 1 kΩ, ± 1%, 1/4 w	98095	RD-102-1QA
R15	Resistor, precision, metal film, 0.4 kΩ, ± 1%, 1/4 w	98095	RD-3242-1QA
R16	Resistor, precision, metal film, 1 kΩ, ± 1%, 1/4 w	98095	RD-102-1QA
R17	Resistor, precision, metal film, 2.1 kΩ, ± 1%, 1/4 w	98095	RD-212-1QA
R19	Resistor, precision, metal film, 15 kΩ, ± 1%, 1/4 w	98095	RD-153-1QA
R20	Resistor, precision, metal film, 3.65 kΩ, ± 1%, 1/4 w	98095	RD-3651-1QA
R21	Resistor, precision, metal film, 2.15 kΩ, ± 1%, 1/4 w	98095	RD-2151-1QA
R22	Resistor, precision, metal film, 475 Ω, ± 1%, 1/4 w	98095	RD-4753-1QA
R23	Resistor, wirewound, 0.3 kΩ, ± 3%, 3 w	98095	RW-192-7KA
R24	Resistor, precision, metal film - selected range from 56 Ω - 332 kΩ, ± 1%, 1/4 w	98095	
R25	Resistor, composition, 3.3 kΩ, ± 10%, 1/4 w	01121	EB3321
R27	Resistor, precision, metal film, 1 kΩ, ± 1%, 1/4 w	98095	RD-102-1QA
R28	Resistor, precision, metal film - selected range from 1.87 kΩ - 16.2 kΩ, ± 1%, 1/4 w	98095	

CIRCUIT NUMBER	DESCRIPTION	MFR CODE NUMBER	PART NUMBER
R29	Resistor, precision, metal film, $34\ \Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-340-1QA
R30	Resistor, precision, metal film, $1\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-102-1QA
R31	Resistor, composition, $3.9\text{ k}\Omega$, $\pm 10\%$, 2 w	01121	H-3921
R33	Resistor, $0.11\ \Omega$	98095	PS-6050B-17
R34	Resistor, precision, metal film, $3.32\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-3321-1QA
R38	Resistor, wirewound, variable, $10\text{ k}\Omega$, $\pm 5\%$, 2 w , 10 turn	98095	RWV-103-3C10
R39	Resistor, precision, metal film, $301\ \Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-3010-1QA
R40	Resistor, composition, $220\ \Omega$, $\pm 10\%$, $1/4\text{ w}$	01121	EB2211
R41	Resistor, wirewound, $0.44\ \Omega$, $\pm 5\%$, 3 w	98095	RW-F44-3KA
R42	Resistor, precision, metal film, $1\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-102-1QA
R43	Resistor, composition, $56\ \Omega$, $\pm 10\%$, $1/2\text{ w}$	01121	EB5601
R44	Resistor, composition, $220\ \Omega$, $\pm 10\%$, $1/4\text{ w}$	01121	EB2211
R45	Resistor, wirewound, $0.22\ \Omega$, $\pm 5\%$, 3 w	98095	RW-F22-3KA
R46	Resistor, precision, metal film, $1\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-102-1QA
R47	Resistor, composition, $27\ \Omega$, $\pm 10\%$, $1/2\text{ w}$	01121	EB2701
R48	Resistor, composition, $220\ \Omega$, $\pm 10\%$, $1/4\text{ w}$	01121	EB2211
R49	Resistor, wirewound, $0.15\ \Omega$, $\pm 5\%$, 3 w	98095	RW-F15-3KA
R50	Resistor, precision, metal film, $1\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-102-1QA
R51	Resistor, composition, $27\ \Omega$, $\pm 10\%$, $1/2\text{ w}$	01121	EB2701
R53	Resistor, precision, metal film, $221\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-2213-1QA
R54	Resistor, precision, metal film, $1\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-102-1QA
R55	Resistor, precision, metal film, $221\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-2213-1QA
R56	Resistor, composition, $2.7\text{ M}\Omega$, $\pm 10\%$, $1/2\text{ w}$	01121	EB2751
R57	Resistor, precision, metal film, $221\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-2213-1QA
R58	Resistor, precision, metal film, $10\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-103-1QA
R59, R60	Resistor, precision, metal film, $1\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-102-1QA
R61, R62, R63	Resistor, precision, metal film, $10\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-103-1QA
R64	Resistor, precision, metal film, $6.04\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-6041-1QA
R65	Resistor, precision, metal film, $10\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-103-1QA
R67	Resistor, wirewound, trimmer, $500\ \Omega$, $\pm 10\%$, $1\frac{1}{4}\text{ w}$	98095	RWTP-501-C4
R69	Resistor, precision, metal film, $6.04\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-6041-1QA
R70	Resistor, precision, metal film, $499\ \Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-4990-1QA
R71	Resistor, precision, metal film, $1\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-102-1QA
R72	Resistor, composition, $47\ \Omega$, $\pm 10\%$, $1/2\text{ w}$	01121	EB4701
R73	Resistor, precision, metal film, $100\ \Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-101-1QA
R74	Resistor, wirewound, variable, $100\text{ k}\Omega$, $\pm 10\%$, 1 w	98095	RVC-104B4-1
R75	Resistor, wirewound, variable, $2\text{ k}\Omega$, $\pm 5\%$, 2 w , 10 turn	98095	RWV-202-3C10
R76	Resistor, precision, metal film, $22.1\ \Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-22F1-1QA
R77	Resistor, precision, metal film, $2.15\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-2151-1QA
R78	Resistor, precision, metal film, $1.58\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-1581-1QA
R79	Resistor, precision, metal film, $3.01\text{ k}\Omega$, $\pm 1\%$, $1/4\text{ w}$	98095	RD-3011-1QA
R80	Resistor, composition, $1.5\text{ k}\Omega$, $\pm 5\%$, $1/2\text{ w}$	01121	EB1525
S1	Switch, toggle, S.P.S.T.	98095	ST-5
S2	Switch, push button, D.P.D.T.	98095	ST-41
T1	Transformer	98095	TTM-6050BK-3

CIRCUIT NUMBER	DESCRIPTION	MFR CODE NUMBER	PART NUMBER
U1	Integrated circuit	98095	μ A3403DC
VR1	Diode, silicon, zener	98095	DZ, E, F, G
VR2	Diode, silicon, zener	98095	3EZ5.6D5
VR3	Diode, silicon, zener	98095	1N825 J, K

CODE LIST OF MANUFACTURERS

01121	Allen-Bradley Corporation	Milwaukee, Wisconsin
71400	Bussmann Manufacturing Division	St. Louis, Missouri
98095	Power Designs Inc.	Westbury, New York

DIGITAL PANEL METER ASSEMBLY

P/N A79062

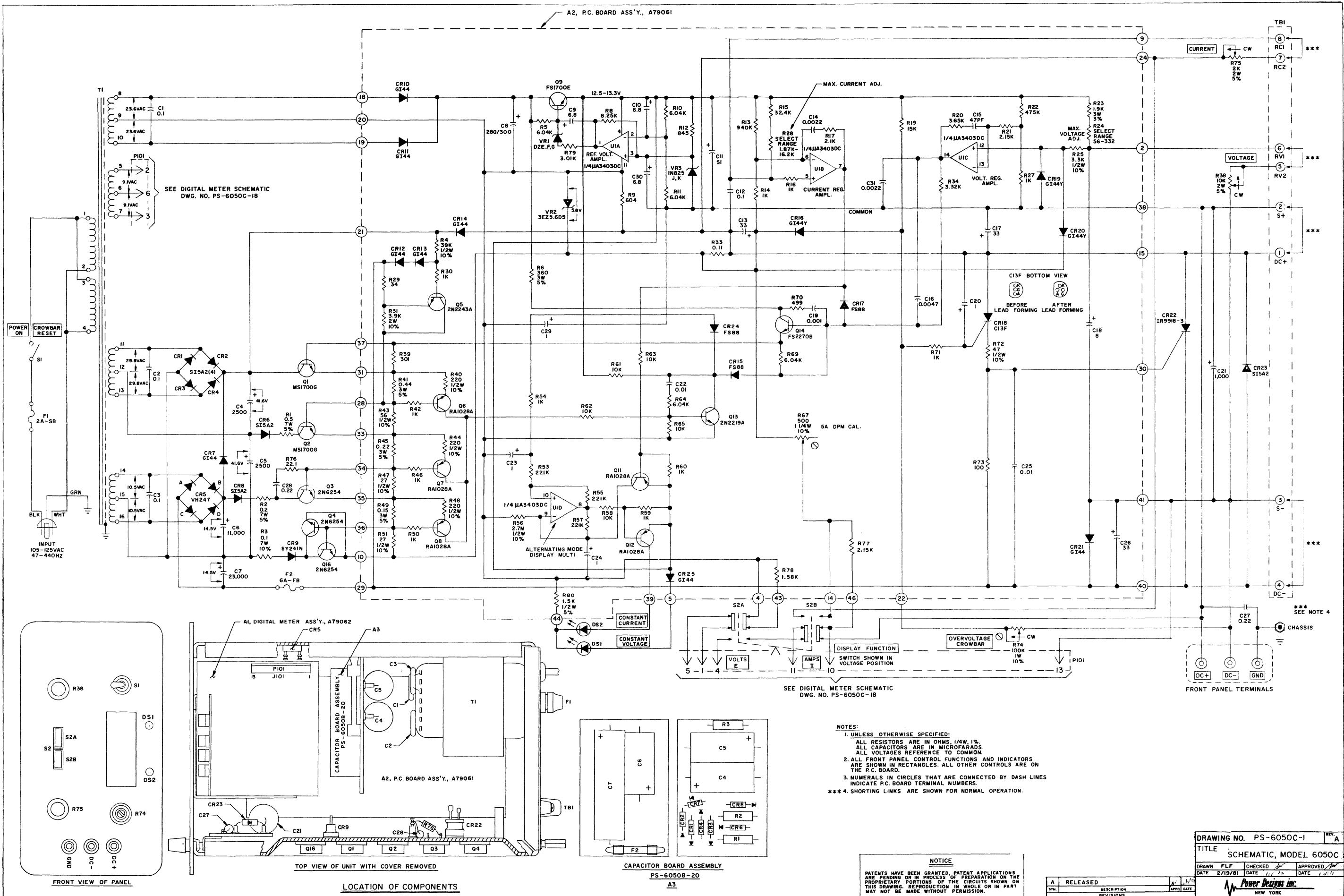
ELECTRICAL PARTS LIST

CIRCUIT NUMBER	DESCRIPTION	MFR CODE NUMBER	PART NUMBER
C101	Capacitor, electrolytic, 1000 μ f, 16 vdc	98095	CE-102-16-SE
C102	Capacitor, tantalum, 1 μ f, 50 vdc	98095	CE-1-500
C103	Capacitor, ceramic disc, 390 pf, 1 k vdc	98095	CC-390P-102
C104, C105	Capacitor, plastic film, 0.47 μ f, 80 vdc	98095	CP-31-.8
C106	Capacitor, tantalum, 6.8 μ f, 35 vdc	98095	CE-6A8-.35
C107	Capacitor, tantalum, 1 μ f, 50 vdc	98095	CE-1-500
CR101 thru CR104	Diode, silicon	98095	GI44
DS101 thru DS104	Display, digital	98095	B78014
J101	Connector	98095	A78022
P101	Connector	98095	A78023
R101	Resistor, precision, metal film, 845 Ω , \pm 1%, 1/4 w	98095	RD-8450-1QA
R102	Resistor, precision, metal film, 20 k Ω , \pm 1%, 1/4 w	98095	RD-203-1QA
R103, R104	Resistor, wirewound, trimmer, 10 k Ω , \pm 10%, 1/2 w	98095	RWT-103-4A
R105	Resistor, precision, metal film, 562 Ω , \pm 1%, 1/4 w	98095	RD-5620-1QA
R106	Resistor, wirewound, trimmer, 100 Ω , \pm 10%, 1/2 w	98095	RWT-101-4A
R107	Resistor, precision, metal film, 2.43 k Ω , \pm 1%, 1/4 w	98095	RD-2431-1QA
R108 thru R112	Resistor, composition, 200 Ω \pm 5% 1/2 w	01121	EB2015
R113, R114	Resistor, composition, 47 Ω , \pm 10%, 1/2 w	01121	EB4701
R115	Resistor, composition, 22 M Ω , \pm 10%, 1/2 w	01121	EB2261
R116	Resistor, precision, metal film, 100 k Ω , \pm 1%, 1/4 w	98095	RD-104-1QA
R117	Resistor, precision, metal film, 499 Ω , \pm 1%, 1/4 w	98095	RD-4990-1QA
R118	Resistor, precision, metal film, 6.04 k Ω , \pm 1%, 1/4 w	98095	RD-6041-1QA
R119 thru R125	Resistor, composition, 47 Ω , \pm 10%, 1/2 w	01121	EB4701
R126	Resistor, precision, metal film, 154 k Ω , \pm 0.25% 1/4 w	98095	RD-1543-11QA
R127	Resistor, precision, metal film, 6.34 k Ω , \pm 1%, 1/4 w	98095	RD-6341-1QA
R128	Resistor, precision, metal film, 1.62 k Ω , \pm 0.25% 1/4 w	98095	RD-1621-11QA
R129	Resistor, precision, metal film, 100 k Ω , \pm 1%, 1/4 w	98095	RD-104-1QA
R130	Resistor, composition, 1 M Ω , \pm 10%, 1/2 w	01121	EB1051

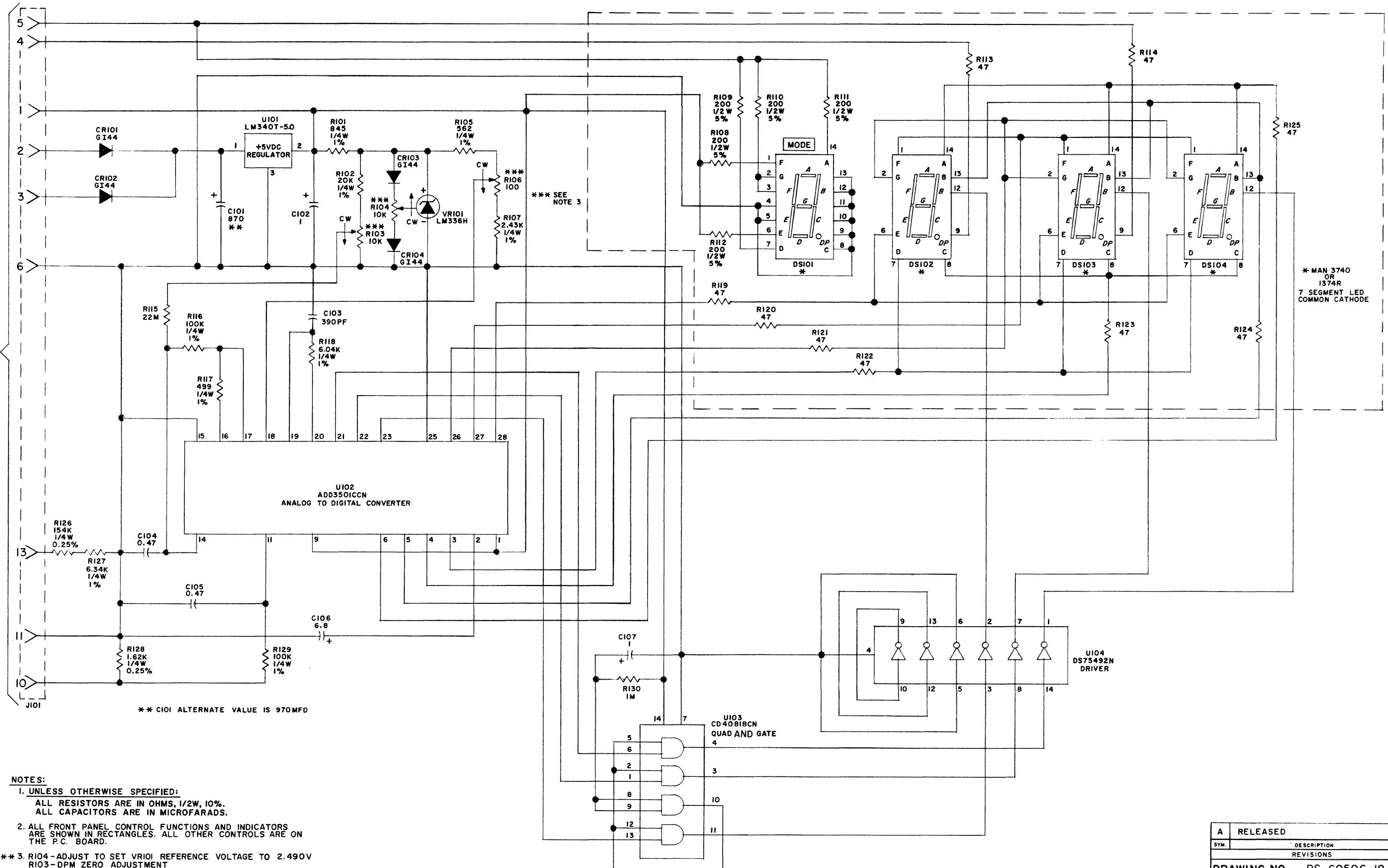
CIRCUIT NUMBER	DESCRIPTION	MFR CODE NUMBER	PART NUMBER
U101	Integrated circuit	98095	LM340T-5.0
U102	Integrated circuit	98095	ADD3501CCN
U103	Integrated circuit	98095	CD4081BCN
U104	Integrated circuit	98095	DS75492N
VR101	Diode, I. C. Reference	98095	LM336H

CODE LIST OF MANUFACTURERS

01121	Allen-Bradley Corporation	Milwaukee, Wisconsin
98095	Power Designs Inc.	Westbury, New York



SEE SCHEMATIC, DWG. NO. PS-6050C-1



NOTICE
PATENTS HAVE BEEN GRANTED, PATENT APPLICATIONS
ARE PENDING OR IN PROCESS OF PREPARATION ON THE
PROPRIETARY PORTIONS OF THE CIRCUITS SHOWN ON
THIS DRAWING. REPRODUCTION IN WHOLE OR IN PART
MAY NOT BE MADE WITHOUT PERMISSION.

A	RELEASED	REV. A
SYM.	DESCRIPTION	APP'D DATE
REVISIONS		
DRAWING NO.	PS-6050C-18	REV. A
TITLE	SCHEMATIC, DIGITAL METER ASSEMBLY A79062	
DRAWN HC	CHECKED	APPROVED
DATE 11/4/81	DATE	DATE 12/1/81

Power Designs Inc.
NEW YORK

W A R R A N T Y

POWER DESIGNS INC., warrants to the original purchaser, each instrument sold by us, or our authorized agents, and all the parts thereof, to be free from defects in material or workmanship under normal use and service within the specified ratings and operating conditions.

Its obligation under this warranty is hereby limited to the repair or replacement of any instrument, or part thereof, which is returned to us within one year after delivery, and which shall prove, after our examination, to be thus defective.

This warranty does not include the cost of transportation charges to and from the factory and/or the cost of packaging or crating of instruments for return to the factory, unless such instrument is returned within thirty (30) days from the date of original shipment as shown on the packing list or shipping documents, and prior written authorization for such costs is obtained from the factory.

The repair or replacement of an instrument, or any part thereof, does not void or extend the original warranty.

POWER DESIGNS INC., reserves the right to discontinue any instrument without notice, or to make modifications in design at any time, without incurring any obligation to make these modifications in instruments previously sold.

POWER DESIGNS INC.

Westbury, L.I., New York

POWER DESIGNS PACIFIC, INC.

Palo Alto, California