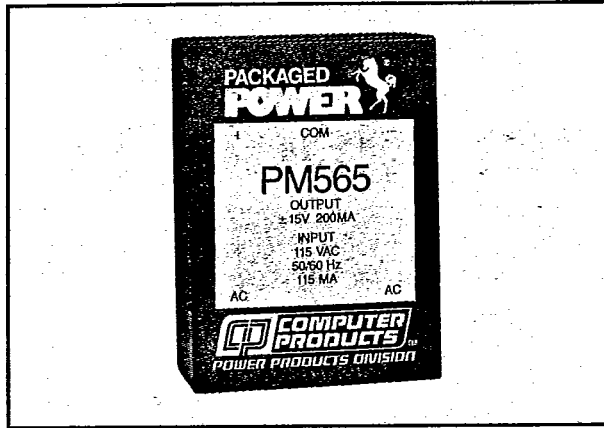




PM500 SERIES

Dual and Triple Output

- Split-Bobbin Wound
- 2500 VAC Isolation
- UL Recognized
- CSA Certified
- 115, 100, 220 or 240 VAC Input
- Short Circuit Protection

These popular PC-mountable linear power modules feature dual and triple outputs with 16 different dual models and 6 different triple models. The most commonly used output voltages of 5V, $\pm 12V$, $\pm 15V$, $\pm 18V$, and $\pm 24V$ are featured. Overvoltage crowbar protection is a standard feature on 5V outputs. Most models are UL recognized and CSA certified. For maximum safety, all power transformers are split-bobbin wound, rather than layer wound, to give total isolation between primary and secondary. Standard input voltage is 115 VAC at 50 to 400 Hz; other optional inputs are 100, 220, and 240 VAC. The industry standard 2.5×3.5 inch cases are available in standard and alternate pin configurations, for second sourcing applications. Input/output isolation voltage is 2500 VAC and output current-limiting short circuit protection is standard.



STOCKED BY YOUR LOCAL DISTRIBUTOR
See list on pages 175 & 176

COMPUTER PRODUCTS
POWER PRODUCTS DIVISION
(305) 974-2442

SPECIFICATIONS

All Specifications Typical at Nominal Line, Full Load, and 25°C Unless Otherwise Noted.

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 1.0\%$, max.
Voltage Balance, Dual Outputs $\pm 1.0\%$, max.
Temperature Coefficient $\pm 0.02\%/^{\circ}\text{C}$.
Short Circuit Protection Automatic
Overvoltage Crowbar, 5V Outputs 6.2V, nominal

INPUT SPECIFICATIONS

Input Voltage Range,
Standard Models 105 to 125 VAC
Other Models See Table
Input Frequency 50 to 400 Hz
Derating at 400 Hz Consult Factory

GENERAL SPECIFICATIONS

Isolation Voltage 2500 VRMS
Isolation Capacitance 50 pF
Isolation Resistance 50 megohms

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range ... -25°C to $+71^{\circ}\text{C}$
Derating, 50°C to 71°C $2.5\%/^{\circ}\text{C}$
Storage Temperature Range -25°C to $+85^{\circ}\text{C}$
Humidity, Non-Condensing 20% to 95% RH
Cooling Free Air Convection

PHYSICAL SPECIFICATIONS

Weight, Case B1 12 oz. (340 grams)
Case B2 14.4 oz. (408 grams)
Case B3 22.4 oz. (635 grams)
Case Material Non-Conductive Black Plastic
Mating Socket, Case B, dual output MS013-0
Case B, suffix "S", dual output MS013-1
Case B, triple output MS022-0
Case B, suffix "S" triple MS022-1
For screw terminal sockets see page 100.

NOTE:

All models are available with alternate pin-outs designated by suffix letter "S". See case drawing. All models are also available with four optional input voltage ranges designated by the suffixes shown in table.

When ordering, specify the complete model number followed by input voltage and alternate pin-out designations, if any.

For example, PM505, PM505J, PM505S, PM505JS, etc.

Input Voltage	Suffix
115 ± 10 VAC	(NONE)
100 ± 10 VAC	J
220 ± 20 VAC	D
240 ± 20 VAC	K

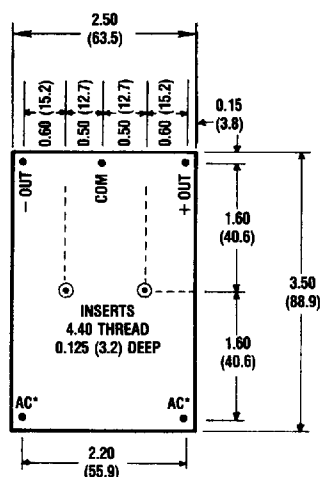
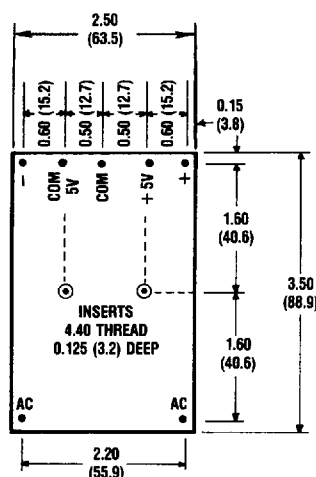
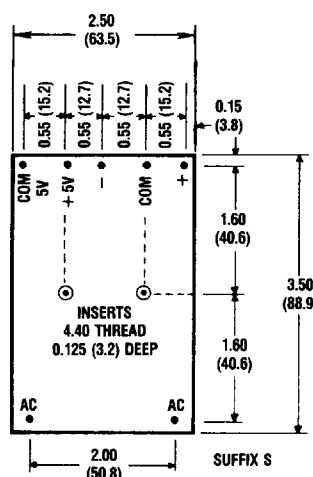
TWO-YEAR WARRANTY

1 to 10 Watt Encapsulated Power Modules

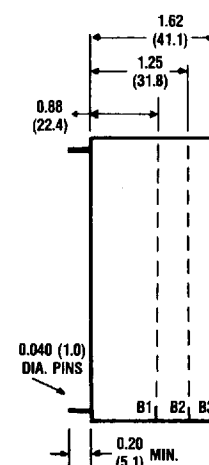
OUTPUT VOLTAGE	OUTPUT CURRENT	OVP ¹	REGULATION		RIPPLE AND NOISE	UL	CSA	ALT PIN OUT	CASE	MODEL NUMBER
			LINE	LOAD						
DUAL OUTPUT										
± 12 VDC	± 25 mA		± 0.2%	± 0.2%	2.0 mV RMS	✓	✓	S	B1	PM509
± 12 VDC	± 50 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B1	PM510
± 12 VDC	± 120 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B1	PM536
± 12 VDC	± 240 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B2	PM537
± 12 VDC	± 400 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B3	PM597
± 15 VDC	± 25 mA		± 0.2%	± 0.2%	2.0 mV RMS	✓	✓	S	B1	PM538
± 15 VDC	± 65 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B1	PM553
± 15 VDC	± 100 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B1	PM505
± 15 VDC	± 150 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B2	PM570
± 15 VDC	± 200 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B2	PM565
± 15 VDC	± 350 mA		± .02%	± .02%	1.0 mV RMS	✓	✓	S	B3	PM501
± 18 VDC	± 25 mA		± 0.2%	± 0.2%	1.0 mV RMS	✓	✓	S	B1	PM511
± 18 VDC	± 50 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B2	PM512
± 18 VDC	± 100 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B2	PM513
± 24 VDC	± 50 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B1	PM531
± 24 VDC	± 100 mA		± .02%	± .02%	0.5 mV RMS	✓	✓	S	B2	PM514
TRIPLE OUTPUT										
5V ± 12 VDC	300/ ± 180 mA	✓	± .02%	± .05%/ ± .02%	0.5 mV RMS	✓	✓	S	B2	PM595
5V ± 12 VDC	500/ ± 120 mA	✓	± .02%	± .05%/ ± .02%	0.5 mV RMS	✓	✓	S	B2	PM591
5V ± 12 VDC	1000/ ± 150 mA	✓	± .02%	± .01%/ ± .02%	1.0/0.5mV RMS	✓	✓	S	B3	PM592
5V ± 15 VDC	300/ ± 150 mA	✓	± .02%	± .05%/ ± .02%	0.5 mV RMS	✓	✓	S	B2	PM594
5V ± 15 VDC	500/ ± 100 mA	✓	± .02%	± .05%/ ± .02%	0.5 mV RMS	✓	✓	S	B2	PM590
5V ± 15 VDC	1000/ ± 150 mA	✓	± .02%	± .01%/ ± .02%	1.0/0.5mV RMS	✓	✓	S	B3	PM593

NOTE 1: Overvoltage protection is on 5V output.

DUAL OUTPUT MODELS

TRIPLE OUTPUT MODELS
STANDARD PIN-OUTTRIPLE OUTPUT MODELS
ALTERNATE PIN-OUT

SIDE VIEW



*FOR SUFFIX S MODELS: AC PIN SPACING IS 2.00 IN. (50.8 MM)

ALL DIMENSIONS IN INCHES (mm)