

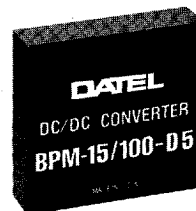
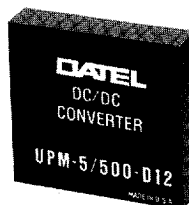
Line Operated Dual Output Power Modules



T-57-05

FEATURES

- Operated from line voltage (115 VAC $\pm 10\%$, 60-440 Hz)
- Fully regulated $\pm 5V$, $\pm 12V$, $\pm 15V$
- High accuracy ($\pm 1\%$)
- Current limiting short circuit protection
- Isolated to 1500 VAC
- Wide operating temperature (-25°C to $+71^\circ\text{C}$ no derating)
- Very low output ripple
- Delivery from stock



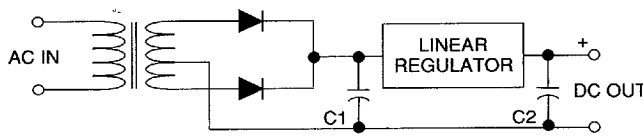
GENERAL DESCRIPTION

The BPM-5, BPM-12, and BPM-15 Series of line operated dual output power modules are high performance DC supplies capable of providing a fully regulated output of $\pm 5V$, $\pm 12V$, and $\pm 15V$ at currents from 60 mA to 500 mA (depending upon model). Their compact size (3.5" x 2.5"), modular design, and ability to be socketed (socket # MS-7) make them ideal for PC board mount applications.

AC input-to-dc output isolation is rated at 1500 VRMS with isolation resistance of 100 Megohms. Multiple output ratings (± 60 mA, ± 100 mA, ± 200 mA, ± 250 mA, ± 300 mA, and ± 500 mA) from nine different supplies allows you to match your application with the supply that fits rather than settling for an "almost right" choice. Temperature coefficients of 0.02% per $^\circ\text{C}$ (maximum) combined with an operating temperature range

of -25°C to $+71^\circ\text{C}$ means accurate, trouble-free operation over prolonged periods. Also, every BPM-5, BPM-12, and BPM-15 Series power module has #4-40 x 0.15 deep threaded inserts (2 each) for easy heat sink mounting or for mounting the supply to a variety of surfaces. The BPM Series has excellent output voltage regulation with output ripple limited to 1 mV (BPM-5 models only, all others are 2 mV). Transient recovery time is 50 μSec (maximum) with current limiting short circuit protection to ensure safe operation for your other circuits.

Case material is phenolic and packaging/pinout is compatible with most other industry standard AC-to-dc supplies making them ideal as the first or second source drop-in.



APPLICATIONS

- Telecommunications Equipment
- Local Power Distribution Systems
- PC Board Subsystems
- Bench Top Instrumentation
- Process Instrumentation
- Laboratory Equipment
- Computer Controlled Equipment

SPECIFICATIONS

	DUAL OUTPUT MODELS	
	BPM-5/250	BPM-5/500
Output Voltage	±5V dc	±5V dc
Output Current	±250 mA	±500 mA
Line Regulation	0.1%	0.1%
Load Regulation	0.05%	0.05%
Output Accuracy	±1%	±1%
Output Impedance (Ohms)	0.05	0.03
Weight	14 oz. (397 grams)	18 oz. (510 grams)
Case Size	C1	C2

	DUAL OUTPUT MODELS		
	BPM-12/100	BPM-12/200	BPM-12/300
Output Voltage	±12V dc	±12V dc	±12V dc
Output Current	±100 mA	±200 mA	±300 mA
Line Regulation	0.05%	0.05%	0.05%
Load Regulation	0.02%	0.02%	0.02%
Output Accuracy	±2%	±1%	±1%
Output Impedance (Ohms)	0.1	0.05	0.05
Weight	14 oz. (397 grams)	18 oz. (510 grams)	24 oz. (680 grams)
Case Size	C1	C2	C3

GENERAL SPECIFICATIONS (at 25 °C)

Voltage Input	103.5 to 126.5 VAC
	60 to 440 Hz
Temperature Coefficient	0.02% per °C
Output Ripple, maximum	
BPM-5 Models only	1 mV RMS
BPM-12	2 mV RMS
BPM-15	2 mV RMS
Transient Recovery Time, maximum	50 µSec
Isolation Resistance, minimum	100 Megohms
Isolation Capacitance, maximum	250 pF
Breakdown Voltage, minimum	1500 VAC
Operating Temperature	-25 °C to +71 °C
	(No Derating)
Storage Temperature	-25 °C to +85 °C
Case Material	Phenolic
Module Size	3.5" x 2.5" (88.9 x 63.5)
	See Case Sizes for Height

Line Operated



SPECIFICATIONS

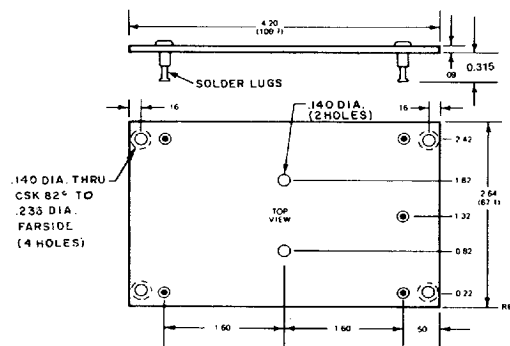
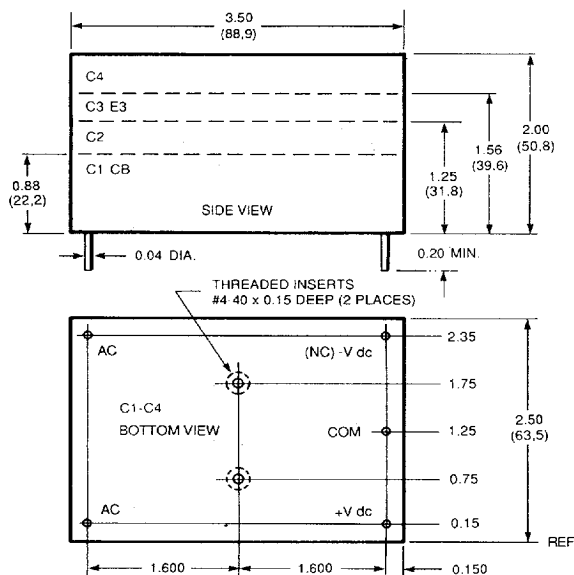
	DUAL OUTPUT MODELS			
	BPM-15/60	BPM-15/100	BPM-15/200	BPM-15/300
Output Voltage	±15V dc	±15V dc	±15V dc	±15V dc
Output Current	60 mA	100 mA	200 mA	300 mA
Line Regulation	0.05%	0.05%	0.05%	0.05%
Load Regulation	0.02%	0.02%	0.02%	0.02%
Output Accuracy	±1%	±1%	±1%	±1%
Output Impedance (Ohms)	0.2	0.1	0.05	0.03
Weight	14 oz. (397 grams)	14 oz. (397 grams)	18 oz. (510 grams)	24 oz. (680 grams)
Case Size	C1	C1	C2	C3

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MECHANICAL DIMENSIONS AND I/O CONNECTIONS

SOCKET MS-7



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