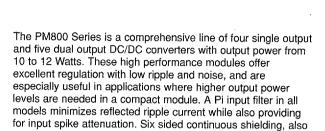
PM800 SERIES

Single and dual output

Recommended for new design-ins

- High performance
- 65% efficiency
- Pi input filter
- Six sided continuous shield
- Short circuit protection
- No derating





2 YEAR WARRANTY

standard, gives EMI/RFI suppression. All models feature output current limiting, short circuit protection and input/output isolation to 500VDC. Other pertinent specifications include: an efficiency of 65%, line regulation of $\pm 0.02\%$; load regulation of $\pm 0.05\%$ for single output models and $\pm 0.02\%$ for dual output models; and an output voltage accuracy of $\pm 3.0\%$.

SPECIFICATION

ALL SPECIFICATIONS ARE TYPICAL AT NOMINAL INPUT, FULL LOAD AND 25°C UNLESS OTHERWISE STATED

OUTPUT SPECIFICATION	ONS	
Voltage accuracy		±3.0%
Line regulation	Line ±8.0%	±0.02%
Load regulation	NL to FL, single ou NL to NL, dual outp	tputs ±0.05% outs ±0.02%
Cross regulation	Balance - duals (m	ax.) ±0.5%
Ripple and noise 20MHz BW	Single output	0.7mV rms typical, 50mV pk-pk max.
· .	Dual output	0.7mV rms typical, 35 mV pk-pk, max.
Transient response	Singles, NL to FL Duals, FL to NL Singles, NL to FL Duals, FL to NL	300mV typ., 0.1µs 400mV typ., 0.1µs 50mV typ., 0.1µs 50mV typ., 0.1µs
Temperature coefficient	Single output Dual output	±0.02%/°C, max. ±0.01%/°C, max.
Short circuit protection	Auto-restart, max. 8 hours	130°C thermal protection
INPUT SPECIFICATION	8	
Input voltage range	See t	table on facing page
Input filter	See Note 3	Pi network

GENERAL SPECIFICA	TIONS	
Efficiency		65% typical
Isolation voltage		500VDC, min.
Switching frequency		20kHz, min.
Case material		Non-conductive black plastic
Shielding connection	Single output Dual output	To negative output To output common
Weight		227g (8oz)
MTBF	Single output Dual output	330,000 hours 233,000 hours
ENVIRONMENTAL SPE	CIFICATIONS	
Thermal performance	Operating ambient Case Non-operating amb Derating Cooling	-25°C to +71°C +90°C, max. -40°C to +125°C None required Free-air convection
Relative humidity	Non-condensing	20% to 95% RH

10 to 12 Watt Nominal input DC/DC converters

INPUT	OUTPUT	OUTPUT	INPUT	CURRENT	REFLECTED BIPPLE	REGL	ILATION	MODEL
VOLTAGE	VOLTAGE	CURRENT	NO LOAD	FULL LOAD	CURRENT (1)	LINE	LOAD (2)	NUMBER
5VDC	±12VDC	±525mA	265mA	3760mA	132mA P-P	±0.02%	±0.05%	PM851
5VDC	±15VDC	±412mA	260mA	3700mA	130mA P-P	±0.02%	±0.05%	PM852
12VDC	12VDC	940mA	100mA	1450mA	51mA P-P	±0.05%	±0.02%	PM813
12VDC	±15VDC	±412mA	110mA	1590mA	54mA	±0.02%	±0.02%	PM862
24VDC	±12VDC	±525mA	55mA	780mA	39mA	±0.02%	±0.02%	PM871
24VDC	±15VDC	±412mA	55mA	770mA	38mA	±0.02%	±0.02%	PM872

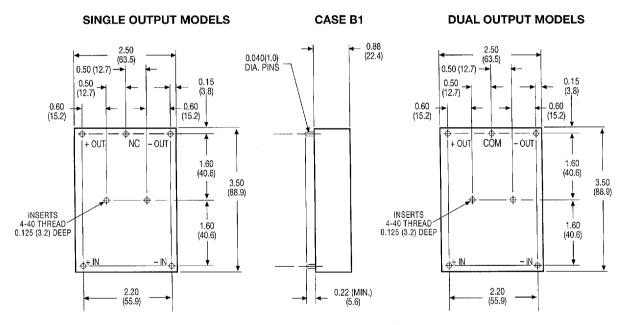
Notes

1 Figures are peak-to-peak.

Load regulation measured from no load to full load.

3 Fixed frequency design provides for easier input filtering and better noise performance.

INPUT VOLTAGE	60% FL	80% FL	100% FL
5V	4.4 to 6.5V	4.5 to 6.0V	4.65 to 5.5V
12V	10.56 to 15.6V	10.8 to 14.4V	11.16 to 13.2V
24V	21.12 to 31.2V	21.6 to 28.8V	22.32 to 26.4V



ALL DIMENSIONS INCHES (mm)



Call Toll-Free: (East) 800-733-9288 • (West) 800-769-7274