PMP130 Series

100-130 WATTS SINGLE OUTPUT AC/DC MEDICAL

Features

- **In compliance with EN61000-3-2, EN61000-3-3 and EN61000-1-1-2.**
- **Thermal protection.**
- **Overvoltage protection.**
- **Overcurrent protection.**
- **100% burn-in at full rated load.**



Specifications

INPUT

Input Voltage	90-264Vac
Frequency	47Hz–67Hz
Input Current	3.0A (rms) for 115Vac. 1.7A (rms) for 230Vac.
Leakage current	90µA max. @ 115Vac. 60Hz. 150µA max. @ 230Vac. 50Hz.
Isolation	Input – Output: 4000VAC Input – Ground: 1500VAC Output – Ground: 500VAC
Inrush Current	15A @ 115V, 30A @ 230V

OUTPUT

Output Voltage	See table
Output Current	See table
Ripple & Noise	1% peak to peak
Line Regulation	±0.5% maximum at full load.
Load Regulation	See table
Transient Response	Max. deviation 4% recovering to 1% within 500µs after 25% load charge
Overvoltage Protection	Provided on V1 only. Set at 110%–132% of nominal.
Overcurrent Protection	All outputs protected for short circuit conditions
Temperature Coefficient	All outputs ±0.04% per °C.
Holdup Time	Typically 10ms at 110VAC.
PFD Signal (Optional)	Power fail detection signal. TTL logic low upon loss of input power.

OPERATING

MTBF	400,000 hrs @ 25°C
Efficiency	65-70% minimum.

ENVIRONMENTAL

Operating Temperature	0°C to 70°C
Derating	Derate to 50% at 60°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5%–95% non-condensing

STANDARDS AND APPROVALS

Safety standards	UL2601-1, CSA C22.2, TUV EN60601-1
C-Tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	EN60601-1-2: 2001,EN61000-3-2, -3, EN61000-4-2, -3, -4, -5, -6, -8, -11
EMI standards	EN55011 Class B, FCC Class B, VCCI Class B
MEPS compliance	TBC

MECHANICAL

Dimensions	178x95x63.5mm
Weight	0.8kgs approx.

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Selection Table

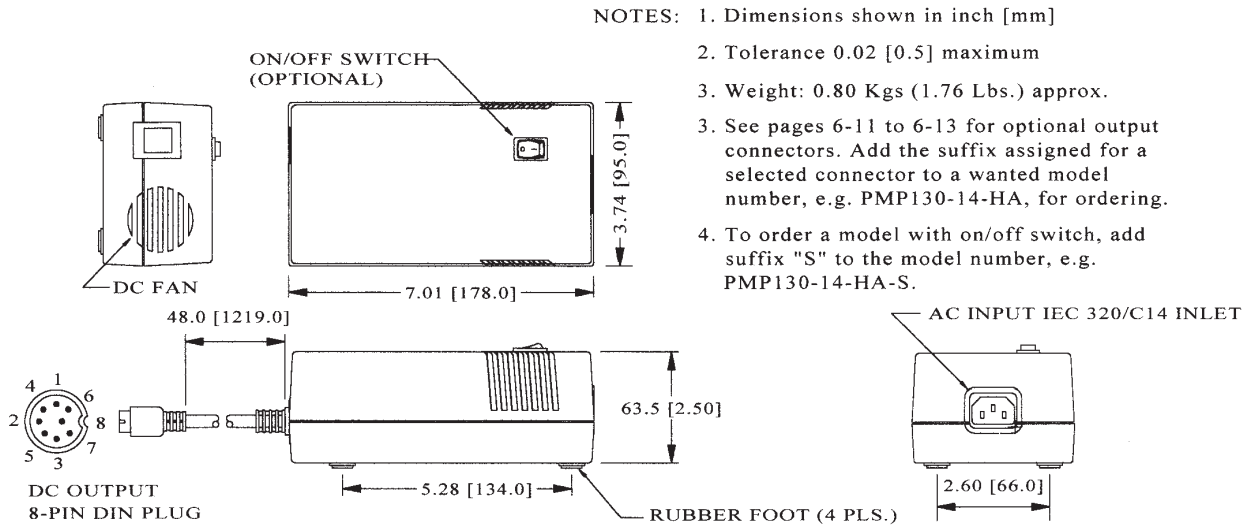
MODEL	OUTPUT #1				MAX. OUTPUT
NUMBER	VNOM	IMIN	IMAX	TOL	POWER
PMP130-10	5V	0A	20A	5%	100W
PMP130-10-1	7V	0A	14A	5%	100W
PMP130-11	10V	0A	10A	5%	100W
PMP130-12	12V	0A	10.8A	5%	130W
PMP130-13	15V	0A	8.6A	4%	130W
PMP130-13-1	18V	0A	7.2A	4%	130W
PMP130-14	24V	0A	5.4A	3%	130W
PMP130-16	30V	0A	4.3A	3%	130W
PMP130-17	36V	0A	3.6A	2%	130W
PMP130-18	48V	0A	2.7A	2%	130W

NOTES: (1) All models are with built-in fan.
(2) Models except PMP130-10, PMP130-10-1 and PMP130-11 are without remote sense. Consult Powerbox for applications requiring remote sense.

Pin Chart

MODEL/PIN		1	2	3	4	5	6	7	8
PMP130-10 PMP130-10-1	PMP130-11	Return	-Sense	Output +V	Return	Output +V	Return	Output +V	+Sense
PMP130-12 PMP130-13 PMP130-13-1 PMP130-14	PMP120-16 PMP120-17 PMP120-18	Return	Return	Return	Return	Output +V	Return	Output +V	Output +V

Technical Illustration



powerbox