

PMP90 Series

60-90 WATTS SINGLE OUTPUT AC/DC MEDICAL - PRELIMINARY

Features

- **Low safety ground leakage current.**
- **Overvoltage protection.**
- **Overcurrent protection.**
- **100% burn-in at full rated load.**
- **Approved to IEC60950-1 and IEC60601-1.**



Specifications

INPUT

Input Voltage	90-264Vac
Frequency	47Hz–67Hz
Input Current	1.20A (rms) for 115Vac. 0.60A (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	60A @ 115V, 120A @ 230V

OUTPUT

Output Voltage	See table
Output Current	See table
Ripple & Noise	2% 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%–140% of nominal.
Overcurrent Protection	All outputs protected for short circuit conditions
Temperature Coefficient	All outputs ±0.04% per °C.
Holdup Time	Typically 15ms at 110VAC.

OPERATING

MTBF	150,000 hrs @ 25°C
Efficiency	78-84% minimum.

ENVIRONMENTAL

Operating Temperature	0°C to 60°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	130x76x43.7mm
Weight	0.65kgs approx.

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Selection Table

MODEL	MAX.				
	OUTPUT #1	OUTPUT			
NUMBER	VNOM	IMIN	IMAX	TOL	POWER
PMP90-10	5V	0A	12.0A	5%	60W
PMP90-10-1	6V	0A	10.0A	5%	60W
PMP90-11	9V	0A	7.78A	5%	70W
PMP90-12	12V	0A	6.67A	5%	80W
PMP90-12-1	13.5V	0A	6.3A	5%	85W
PMP90-13	15V	0A	6.0A	5%	90W
PMP90-13-1	18V	0A	5.63A	5%	90W
PMP90-13-2	19V	0A	5.0A	5%	90W
PMP90-14	24V	0A	3.75A	5%	90W
PMP90-18	48V	0A	1.87A	5%	90W

NOTES: Ripple and noise : Peak-to-peak with 20MHz bandwidth and 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor at rated line voltage and load ranges.

Pin Chart

MODEL/PIN	1	2	3	4
PMP90-10				
PMP90-10-1				
PMP90-11	Return	Output +V	Return	Output +V
PMP90-12				
PMP90-12-1				

Technical Illustration

