

PMP120 Series

96-120 WATTS SINGLE OUTPUT AC/DC MEDICAL - PRELIMINARY

Features

- **Low safety ground leakage current.**
- **Overvoltage protection.**
- **Overcurrent protection.**
- **100% burn-in at full rated load.**



Specifications

INPUT

Input Voltage	90-264Vac
Frequency	47Hz–67Hz
Input Current	1.60A (rms) for 115Vac. 0.80A (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	160x76x43.7mm
Weight	0.78kgs approx.

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Selection Table

MODEL		OUTPUT #1			MAX.	OUTPUT
NUMBER	VNOM	IMIN	IMAX	TOL		POWER
PMP120-12	12V	0A	8.0A	5%		96W
PMP120-13	15V	0A	7.0A	5%		105W
PMP120-13-1	18V	0A	6.67A	5%		120W
PMP120-13-2	19V	0A	6.32A	5%		120W
PMP120-13-3	20V	0A	6.0A	5%		120W
PMP120-14	24V	0A	5.0A	5%		120W
PMP120-16	30V	0A	4.0A	5%		120W
PMP120-17	36V	0A	3.34A	5%		120W
PMP120-18	48V	0A	2.5A	5%		120W

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

Pin Chart

MODEL/PIN		1	2	3	4
PMP120-12	PMP120-14				
PMP120-13	PMP120-16				
PMP120-13-1	PMP120-17	Return	Output +V	Return	Output +V
PMP120-13-2	PMP120-18				
PMP120-13-3					

Technical Illustration

