

DESCRIPTION

The PMP66 series of AC/DC power supplies are high efficiency with compact size and capable of delivering 65 continuous output power. They are enclosed in a 94V-0 rated polycarbonate case with an IEC320/C14 inlet to mate with interchangeable cord for world-wide use. All models meet EN55011 and FCC class B emission limits, and are designed for medical applications.

FEATURES

- Wide operation voltage 90~264Vac
- Compact size 129 * 59 * 32 mm
- Operation altitude up to 5000 meters
- Meet EN55011 and FCC class B
- OVP, OCP, OTP protection
- Compliant with DOE efficiency level VI
 - * No load power consumption less than 0.21 W
 - * Average active efficiency greater than 88%
- LED on/off indicate

INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	1.80 A (rms) for 115 VAC 0.9 A (rms) for 230 VAC
Earth leakage current:	150 uA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage /current:	See rating chart.
Maximum output power:	See rating chart.
Ripple and noise:	See rating chart
Overvoltage protection:	Provided and set at 112-140% of its nominal output voltage
Overcurrent protection:	Protected to short circuit conditions
Temperature coefficient:	±0.04% /°C maximum
Transient response:	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0°C to +60°C
Storage temperature:	-20°C to +85°C
Relative humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +40°C linearly to 50% at +60°C

PMP66 SERIES



SAFETY STANDARD APPROVALS



UL 60601-1, CSA C22.2 No. 60601-1
File No. E211696



TÜV EN 60601-1

GENERAL SPECIFICATIONS

Efficiency:	See rating chart
Hold-up time:	10 ms minimum at 110 VAC
Line regulation:	±0.5% maximum at full load
Inrush current:	40 A @ 115 VAC or 80 A @ 230 VAC, at 25°C cold start
Operation altitude	5000 meters
Withstand voltage:	4000 VAC from input to output (2 MOPP) 1500 VAC from input to ground (1 MOPP) 700 VDC from output to ground (option)
MTBF:	150,000 hours at full load at 25°C ambient, calculated per MIL-HDBK-217F

EMC Performance (IEC60601-1-2)

EN55011/EN55022:	Class B conducted, class B radiated
FCC:	Class B conducted, class B radiated
VCCI:	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, class A and D
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, ±15 KV air and ±8 KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, ±2 KV
EN61000-4-5:	Surge, ±1 KV diff., ±2 KV com.
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 30 A/m
EN61000-4-11:	Voltage dip immunity, 30% reduction for 500 ms, 60% reduction for 100 ms, and >95% reduction for 10 ms

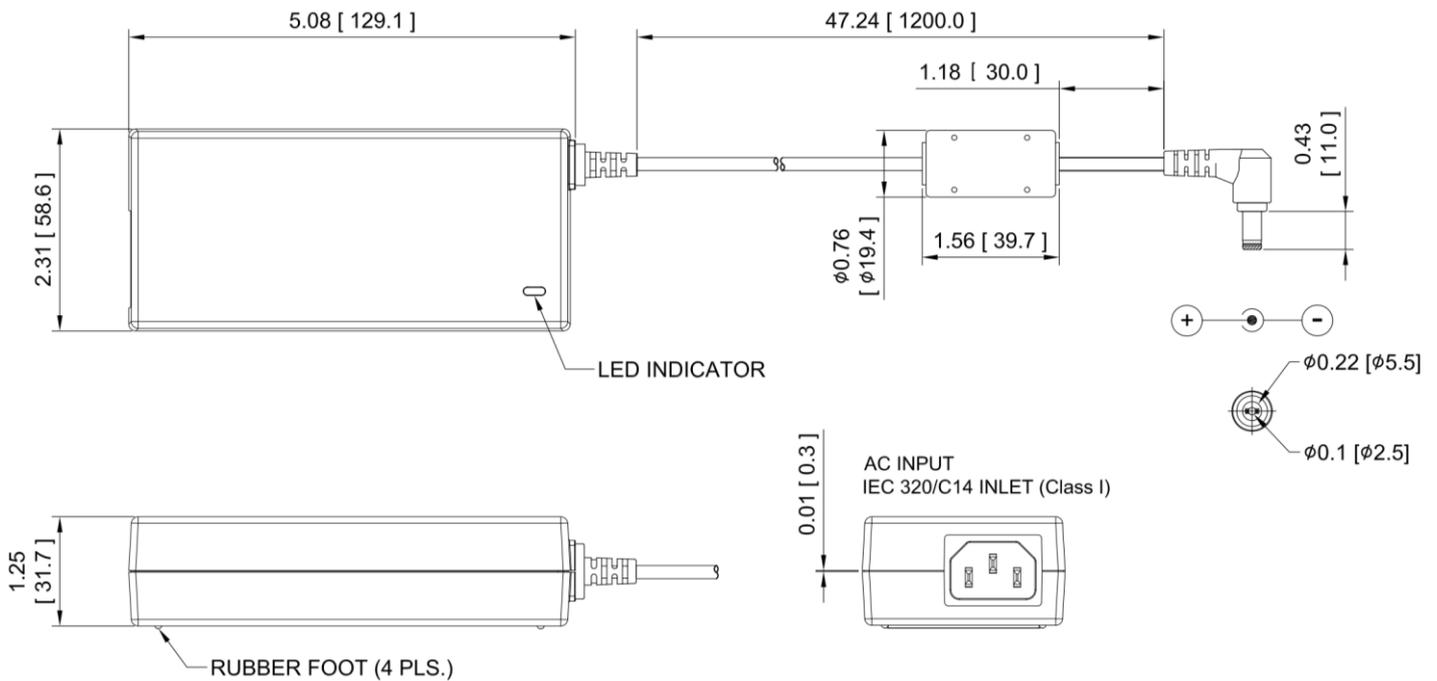
OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output					Average Active Efficiency (typical) @ 115 / 230 Vac	
	V1	Min. Current	Max. Current	Tol.	Ripple & Noise ⁽³⁾		Max. Power
PMP66-12	12.0 V	0 A	5.42 A	±5%	120 mV	65 W	88 /88%
PMP66-13	15.0 V	0 A	4.33 A	±5%	150 mV	65 W	88 /88%
PMP66-13-2	19.0 V	0 A	3.43 A	±5%	190 mV	65 W	88 /88%
PMP66-13-3	20.0 V	0 A	3.25 A	±5%	200 mV	65 W	88 /88%
PMP66-14	24.0 V	0 A	2.71 A	±5%	240 mV	65 W	88 /88%

NOTES:

1. Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF electrolytic capacitor in parallel with a 0.1 µF ceramic disc capacitor across the output.

MECHANICAL SPECIFICATIONS



NOTES:

1. Dimensions shown in mm
2. Tolerance 0.5 maximum
3. Weight: 350 grams (0.77 lbs.) approx