

MPM-U300:



300 Watt Medical Power Supply

Features:

- Rated for Type “BF” Medical Applications
- 300 Watts Convection Cooled Operation
- 360 Watts with 23.5 cfm airflow
- Universal AC Input with Active PFC
- Remote Sense & 12V Fan Functions
- Optional Top Cover
- Capacitor options for extended DIP capability
- 2 Year Warranty

INPUT:

Input Voltage	Universal Input (90~264 VAC)
Input Frequency	47-63Hz
Inrush Current	60A @ 240 VAC Cold Start
Input Current	5 Amps Max Continuous
Input Protection	Dual Fuse
Hold-Up Time	16mS minimum
Leakage	150µA max

GENERAL:

Efficiency	91% Typical
Operating Temperature	0-50°C Full Load (derate 2.5%/°C up to 70°C max)
Storage Temperature	-20°C to +85°C
Over-Temp Protection	Included
Cooling	Convection Cooled up to 300 Watts 23.5cfm for up to 360 Watts
Operating Humidity	10-90% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis

OUTPUT:

Adjustment Range	See Output Table
Minimum Load	None
Regulation	See Output Table
Ripple & Noise	See Output Table
Overload Protection	Auto-Recovery
Over Voltage	Latching
Short Circuit Protection	Trip without damage & auto-recovery

EMC:

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ±2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-100, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% reduction, 5s
Fluctuations & Flicker	EN61000-3-3

STATUS & CONTROL:

Remote Sense	Compensates for <250mV
12V Fan	Included

APPROVALS:

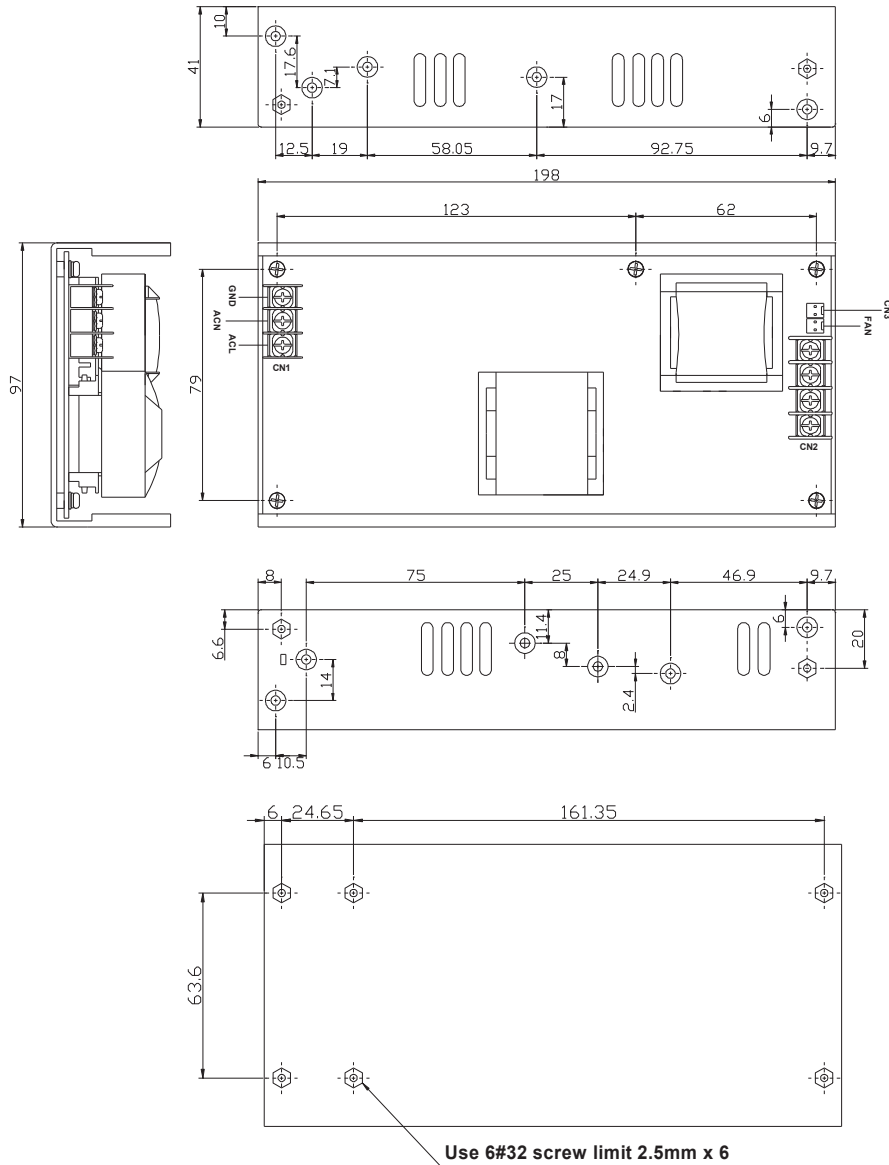
Emissions	EN55011 / EN55022 “B” FCC Part 15 Subject J Class B
Safety Approvals	UL/cUL 60601-1 EN 60601-1 CB Report (IEC601-1) CE Mark (LVD)

MPM-U300:

Output Specifications:

Model Number	Output Voltage Range (Note 1)	Min. Output Current	Rated Output Power	Max. Output Power (Note 7)	Total Regulation (Note 2)	Ripple & Noise p-p (Note 3)	Initial Setting Accuracy (Note 4)
MPM-U303	+12-14V / 12V	0A	300W	360W	±2%	±1%	1%
MPM-U305	+19-28V / 24V	0A	300W	360W	±2%	±1%	1%
MPM-U30R	+36V	0A	8.05A	9.72A	±2%	±1%	1%
	+5V (floating)	0A	1.5A	2A	±5%	120mV	5%

- Note:
- 1) Output voltage can be adjusted by variable resistor with nominal 12/24V
 - 2) Total regulation is measured a setting output voltage. Input voltage is from 90-264VAC and output from 0W to 360W.
 - 3) Measured by a 20MHz bandwidth limited oscilloscope and the each output is connected with a 10µF Electrolytic Capacitor and a 0.1µF Ceramic Capacitor.
 - 4) Voltage setting is at nominal AC input voltage 60% rated load and 25°C.
 - 5) Higher forced air cooling up to 40.6CFM is recommended for MPM-U303.
 - 6) While environment temperature over 25°C, an accessory L-type heat sink (min. 30 * 12.3 + 30 * 4 cm with 2.5mm- thickness) is recommended to be added at the bottom of the power supply itself for MPM-U303.
 - 7) Max. output power at 19V output is 350W.



MPM-U300:

Covered Model ("C" Suffix)

