

TECHNICAL DATASHEET  
Medical / Industrial AC-DC Power Supply  
**MPE600 Series**



#### Highlights and Features

- 600W Max. Output Power for Universal AC Input
- Compact 3.35"x6.18"x1.59" Low Profile
- Medical and ITE Approvals
- Class B Conducted and Radiated EMI
- Type BF Medical Equipment, 2 x MOPP
- Current Share and  $\pm 5\%$  Voltage Trimming
- High Efficiency Up to 96 %
- Up to 70 °C Ambient Operation

#### Safety Certifications

- IEC/EN/ES60601-1 TUV Certifications and CB Report
- IEC/EN/UL62368-1 CB Report
- CE Mark (LVD, EMC and RoHS Directive)
- Complies with IEC60601-1-2 4th Ed
- EN 55011/EN 55032, Class B

#### General Description

The MPE600 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as patient electric bed, aesthetic device, IVD equipment, mobility E-wheelchair, CAPA mode ventilators, oral irrigator, etc. Packed in the industry standard 3.35"x6.18" footprint, the MPE600 can deliver up to 600W with internal fan cooling. With IEC60601-1 & IEC62368-1 certifications, the unit can be used in both Medical and ITE applications. A 5V/2A standby, remote on/off, remote sense and power good signal are included as part of the standard product.

#### Model List

Model	Input Voltage (Vac)	Nominal Output Voltage (V)	Voltage Trimming Range(V)	Max. Current (A)	Max. Power (W)
MPE600A12T	90 - 264	12	11.4 ~ 12.6	50.0	600
MPE600A24T	90 - 264	24	22.8 ~ 25.2	25.0	600
MPE600A48T	90 - 264	48	45.6 ~ 50.4	12.5	600

#### Model Name

MPE	600	A	24	T		AAA
MP: Medical Power Supply	Max. Wattage in Product Series	Family Code	Output Voltage	Inlet Type	Blank	Revision Control Code
E: Enclosed	600:600W	A	24: 24V	T: US Terminal E: EU Terminal C: C14		AAA: Standard

#### Environment

Surrounding Air Temperature	Operating	Absolute maximum/minimum rating -20°C to +70°C. Derating from 100% load at 50°C to 50% load at 70°C.
Storage		-40°C to +85°C
Operating Humidity		5-95 % RH (Non-condensing)
Operating Altitude		Up to 5,000 meters
Shock Test (Non-Operating)		50G, 11ms, 3 shocks for each direction
Vibration (Non-Operating)		5- 500 Hz, 2Grms, 15 minutes for each three axes
Cooling		Convection cooling or forced air

All parameters are specified at 25°C ambient unless otherwise noted. Mar.2025, Rev.02