

TECHNICAL DATASHEET
Medical / Industrial AC-DC Power Supply
MPE1500 Series



Highlights and Features

- 1500W Max. Output Power for Universal AC Input
- Compact 5" x 8" x 1.59" Low Profile
- Medical and ITE Approvals
- Class B Conducted and Radiated EMI
- Type BF Medical Equipment, 2 x MOPP
- Current Share and Voltage Trimming
- Bootloader
- Typical Efficiency 94 %
- Up to 70 °C Ambient Operation
- PMBus Ver1.3 Support
- Intelligent Fan Speed Control

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 4 Ed
- EN 55011/EN 55032, Class B

General Description

The MPE1500 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as CT/MRI medical image machine, aesthetic device, IVD equipment, dialysis machine, etc. Packed in the industry standard 5" x 8" footprint, the MPE1500 can deliver up to 1500W continuous power for a wide range of AC input without power derating to 50 °C ambient temperature. With IEC60601-1 & IEC62368-1 certifications, the unit can be used in both Medical and ITE applications. A 5V/2A standby, current share, voltage trimming, intelligent fan speed control, boot loader, 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)
MPE1500A24T	90 - 264	24	21.6 ~ 26.4	62.50	1500
MPE1500A48T	90 - 264	48	43.2 ~ 52.8	31.25	1500

Model Name

MPE	1500	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	1500: 1500W	A	24: 24V	T: US Terminal		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