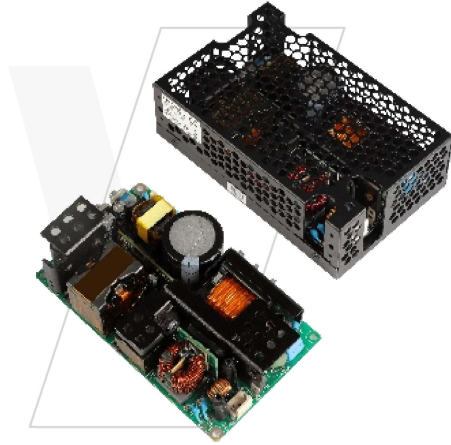


TECHNICAL DATASHEET
Medical / Industrial AC-DC Power Supply
MPO400 Series



Highlights and Features

- 300W (400W Peak) Convection Cooling
- 400W with Forced Air
- Compact 3" x 5" x 1.5" Low Profile
- Medical and ITE Approvals
- Class B Conducted and Radiated EMI
- Type BF Medical Equipment, 2 x MOPP
- High Efficiency Up to 94 %

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 MPO400 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"x5" footprint, the MPO400 can deliver up to 300W with convection cooling or 400W with forced air 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. Other options including internal fan, enclosure and output adjustment are also available.

Model List

Model	Input Voltage (Vac)	Nominal Output Voltage (V)	Max. Current (A)	Max. Power Convection(W)	Max. Power Forced Air(W)
MPO400A12J	90 - 264	12	33.3	300	400
MPO400A24J	90 - 264	24	16.7	300	400
MPO400A48J	90 - 264	48	8.4	300	400

Model Name

MPO	400	A	24	J		AAA
MP: Medical Power Supply	Max. Wattage in Product Series	Family Code	Output Voltage	Inlet Type	Blank	Revision Control Code
O: Open Frame	400: 400W	A: Standard E: Enclosed	24: 24V	J: JST Connector		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