

TECHNICAL DATASHEET  
Medical / Industrial AC-DC Power Supply  
**MPC6 Series**



#### Highlights and Features

- 2400W Max. Output Power for Universal AC Input
- Compact 5" x 10" x 1.59" Low Profile
- Medical and ITE Approvals
- Class B Conducted and Radiated EMI
- Type B Medical Equipment, 2 x MOPP
- Output Selectable from 2 V to 60 V
- Up to 6 Outputs
- Analog and Digital Voltage Trimming
- Up to 70 °C Ambient Operation
- PMBus Ver1.3 Support
- Low Audible Noise 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 4th Ed
- EN 55011/EN 55032, Class B

#### General Description

The MPC6 is a configurable power supply with market-leading density and efficiency. It is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as CT scanner, surgical mechanical equipment, semiconductor device, etc. Packed in the industry standard 5" x 10" footprint, the MPC6 can deliver up to 2400W 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. It is also compliant with SEMI F47 tests to immunity voltage sag for semiconductor processing, metrology, and automated test equipment.

#### Model List

Model	Number of Output Modules	Input Voltage (Vac)	Output Voltage (V)	Max. Output Power (W)
MPC6	6	90~180	2-60	1200
		180~264		2400

#### Model Name

MPC	6	X	A	-	Y-Y-Y-Y-Y-Y		AAAA
MP: Medical Power Supply C: Configurable	Max. Wattage in Product Series 6: 6 slots, 2400W	Input Type T: US Terminal E: EU Terminal C: C14	Family Code A: Normal Fan Direction B: Reversed Fan Direction		Output Configurations See below	Blank	PSU Configuration See below

#### 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