

TECHNICAL DATASHEET
Medical / Industrial AC-DC Power Supply
MPE1000 Series



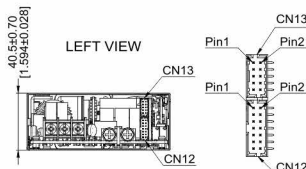
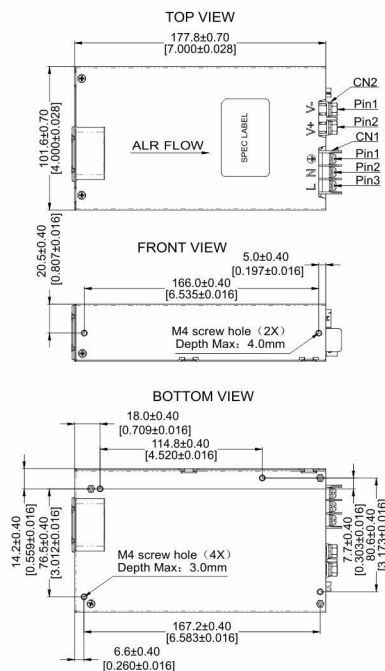
General Description

The MPE1000 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as IVD equipment, aesthetic device, dialysis machine, etc. Packed in the industry standard 4" x 7" footprint, the MPE1000 can deliver up to 1000W 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)
MPE1000A12T	90 - 264	12	11.4 ~ 12.6	83.3	1000
MPE1000A24T	90 - 264	24	22.8 ~ 25.2	41.6	1000
MPE1000A36T	90 - 264	36	34.2 ~ 37.8	27.7	1000
MPE1000A48T	90 - 264	48	45.6 ~ 50.4	20.8	1000

MPE1000A-xx Series: 101.6 x 177.8 x 40.5mm(WxLxH)



Terminal	Function	Product Connector
CN1	Pin1 N	TML
	Pin2 PE	TS BHK 3-03-9-52-02-T2-G1-C
	Pin3 L	13kgf.cm(M4 Screw)
CN2	Pin1 V-	TML
	Pin2 V+	PIN MFE 04541-T16.8kgf.cm(M5 Screw)

CN12	Pin1 RESERVED	Pin8 STBY+	Product Connector: WCON 3121-14R08BK00R1 Client Connector: Housing WCON 3121-2407B02 Clamp WCON 3121-17P002
	Pin2 R	Pin9 STBY-	
	Pin3 PG	Pin10 S+	
	Pin4 REDERIVED	Pin11 S-	
	Pin5 REDERIVED	Pin12 S-	
CN13	Pin6 REDERIVED	Pin13 Current_Share	Product Connector: WCON 3118-10R08BK00R1 Client Connector: Housing WCON 3121B-2407B02 Clamp WCON 3121-17P002
	Pin7 STBY+	Pin14 STBY-	
	Pin1 CSV+	Pin6 REDERIVED	
	Pin2 CSV-	Pin7 A0	
	Pin3 SDA	Pin8 A1	
CN13	Pin4 SCL	Pin9 A2	
	Pin5 REDERIVED	Pin10 REDERIVED	

Highlights and Features

- 1000W Max. Output Power for Universal AC Input
- Compact 4" x 7" 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 $\pm 5\%$ Voltage Trimming
- Bootloader
- High Efficiency Up to 95%
- Up to 70 °C Ambient Operation
- PMBus Ver1.2 Support
- Intelligent Fan Speed Control

Safety Certifications

- IEC/EN/ES60601-1 UL 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