



**Great Wall<sup>®</sup>**  
**长城医疗电源**

M E D I C A L  
E Q U I P M E N T  
S W I T C H I N G  
P O W E R  
S U P P L Y

Great Wall

# Great Wall<sup>®</sup>

## 长城医疗电源

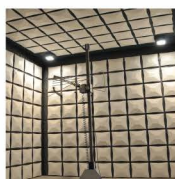


## 公司简介

## COMPANY PROFILE

长城电源技术有限公司一直致力于电源领域的研发、生产与销售，在中国、美国、越南、匈牙利等地建有8大研发中心和4个电源生产基地，是国内规模最大、技术最强的专业电源生产制造商。

公司注册资本为3.5亿RMB，具有30余年的电源开发设计及生产经验，产品涉及电脑、服务器、边缘计算、通讯、工业、医疗等领域，各类电源年产能2000余万台。拥有浪潮、阿里巴巴、腾讯、字节、华三、锐捷、曙光、联想、华硕、中兴、鱼跃、JUNIPER、富士康、海康、大华、西门子、GE医疗等优质客户群。



Radiation EMI  
testing lab



Surge equipment



Chroma 8000  
testing system



SMT assembly  
workshop



Insertion workshop



Assembly line

# 长城电源 GREAT WALL POWER SUPPLY

## 10大优势 THE TOP 10 ADVANTAGES OF GREAT WALL POWER SUPPLIES

- 1、世界500强中国电子下属成员企业，国资央企，信誉保障
- 2、中国领先的开关电源制造厂商，产品涵盖服务器、通讯、信创、工控、医疗、模块、PC、车载等领域
- 3、深圳、桂林、太原、越南四大生产基地，年产能2000余万台各类开关电源
- 4、高性能CRPS服务器电源产销量国内第一、国际前三
- 5、电竞类桌面型电脑开关电源产销量国内第一
- 6、36年开关电源研发经验，800余名资深研发工程师，设计最高功率密度103W/in<sup>3</sup>，行业领先水平
- 7、国内电源行业标准制定者之一，参与起草多项国家电源标准和行业规范
- 8、深圳、上海、北京、南京、杭州、太原、台北7大研发中心，设有多个国家级实验室
- 9、一流的制造和质量保障体系，通过多项国内、国际体系认证
- 10、长城制造，品质保障

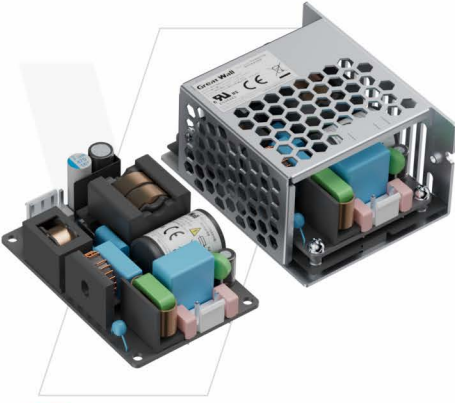
## 合作伙伴



## 产品目录

| 产品系列          | 页码 | 产品系列           | 页码 |
|---------------|----|----------------|----|
| MPO90 Series  | 01 | MPE800 Series  | 07 |
| MPO130 Series | 02 | MPE1000 Series | 08 |
| MPO200 Series | 03 | MPE1250 Series | 09 |
| MPO400 Series | 04 | MPE1500 Series | 10 |
| MPE600 Series | 05 | MPC4 Series    | 11 |
| MPE650 Series | 06 | MPC6 Series    | 12 |

# MPO90 Series



## Highlights and Features

- Up to 90W Convection Cooling
- Compact 2"x3"x1" Low Profile
- Medical and ITE Approvals
- Class B Conducted and Radiated EMI
- Type BF Medical Equipment, 2 x MOPP
- Class I and Class II Installations
- No Load Power Consumption < 0.5W Typical
- High Efficiency Up to 95%
- Up to 70°C Ambient Operation

## 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

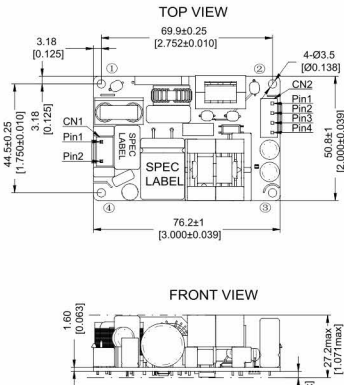
## General Description

The MPO90 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as infusion pump, blood pressure or body temperature meter, nebulizer, oral irrigator, medical monitors, etc. Packed in the industry standard 2"x3" size, the MPO90 can deliver up to 90W with convection cooling. With IEC60601-1 & IEC62368-1 certifications, the unit can be used in both Medical and ITE applications with either Class I & Class II (no ground wire) installations.

## Model List

| Model       | Input Voltage (Vac) | Nominal Output Voltage (V) | Max. Current (A) | Max. Power (W) | Peak Power (W) |
|-------------|---------------------|----------------------------|------------------|----------------|----------------|
| MPO90A/E12J | 85 - 264            | 12                         | 7.50             | 90             | 130            |
| MPO90A/E15J | 85 - 264            | 15                         | 6.00             | 90             | 130            |
| MPO90A/E19J | 85 - 264            | 19                         | 4.74             | 90             | 130            |
| MPO90A/E24J | 85 - 264            | 24                         | 3.75             | 90             | 130            |
| MPO90A/E48J | 85 - 264            | 48                         | 1.88             | 90             | 130            |

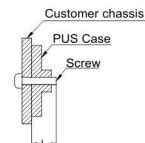
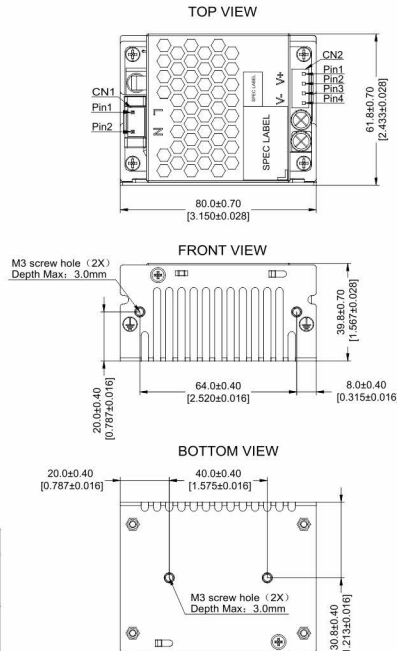
MPO90A-xx Series: 50.8 x 76.2 x 27.2mm(WxLxH)



- (1) For Class I, ① and ② must be connected to the earth
- (2) For Class II, ① and ② must be shorted
- (3) For ①-④, it is recommended to install M3\*6 Screws with a torque of 0.4N·m

| Terminal | Function   | Product Connector                      | Client Connector                 |
|----------|------------|----------------------------------------|----------------------------------|
| CN1      | Pin1 L     | JYR(Header): M01-100031231-41200       | JYR(Housing): SK-39603-WH01      |
|          | Pin2 N     | JYR(Crimp Socket): DZ-39631-1000       | JYR(Crimp Socket): DZ-39631-1000 |
| CN2      | Pin1, 2 V+ | JYR(Header): M01-100041234-41200       | JYR(Housing): SK-39604-WH00      |
|          | Pin3, 4 V- | JYR(Crimp Socket): M01-100041234-41200 | JYR(Crimp Socket): DZ-39631-1000 |

MPO90E-xx Series: 61.8 x 80.0 x 39.8mm(WxLxH)



## Medical / Industrial AC-DC Power Supply

# MPO130 Series



## Highlights and Features

- Up to 130W Convection Cooling
- Compact 2"x3"x1" Low Profile
- Medical and ITE Approvals
- Class B Conducted and Radiated EMI
- Type BF Medical Equipment, 2 x MOPP
- Class I and Class II Installations
- No Load Power Consumption < 0.3W Typical
- High Efficiency Up to 95%
- Up to 70°C Ambient Operation

## 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

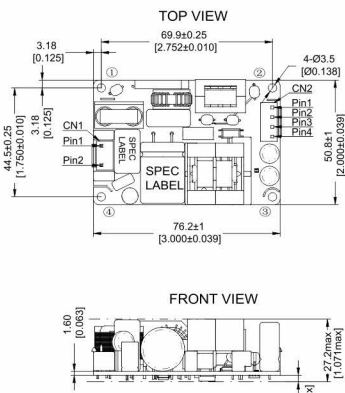
## General Description

The MPO130 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as infusion pump, blood pressure or body temperature meter, nebulizer, oral irrigator, medical monitors, etc. Packed in the industry standard 2"x3" size, the MPO130 can deliver up to 130W with convection cooling. With IEC60601-1 & IEC62368-1 certifications, the unit can be used in both Medical and ITE applications with either Class I & Class II (no ground wire) installations.

## Model List

| Model        | Input Voltage (Vac) | Nominal Output Voltage (V) | Max. Current (A) | Max. Power (W) | Peak Power (W) |
|--------------|---------------------|----------------------------|------------------|----------------|----------------|
| MPO130A/E12J | 85 - 264            | 12                         | 10.83            | 130            | 150            |
| MPO130A/E15J | 85 - 264            | 15                         | 8.67             | 130            | 150            |
| MPO130A/E19J | 85 - 264            | 19                         | 6.84             | 130            | 150            |
| MPO130A/E24J | 85 - 264            | 24                         | 5.41             | 130            | 150            |
| MPO130A/E48J | 85 - 264            | 48                         | 2.71             | 130            | 150            |

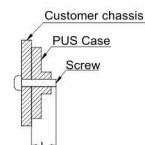
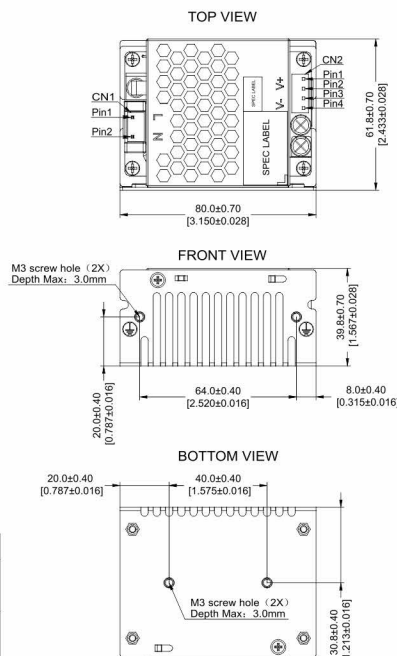
MPO130A-xx Series: 50.8 x 76.2 x 27.2mm(WxLxH)



- (1) For Class I, ① and ② must be connected to the earth  
(2) For Class II, ① and ② must be shorted  
(3) For ①-④, it is recommended to install M3\*6 Screws  
with a torque of 0.4N·m

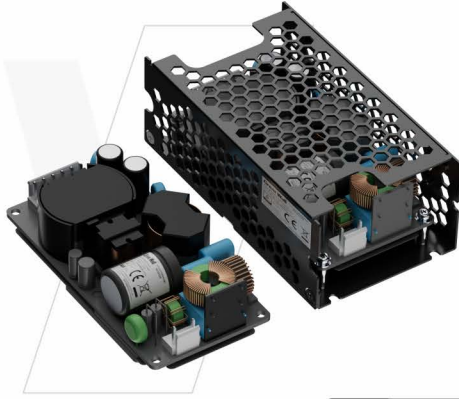
| Terminal | Function |    | Product Connector                   | Client Connector                    |
|----------|----------|----|-------------------------------------|-------------------------------------|
| CN1      | Pin1     | L  | JYR(Header):<br>M01-100031231-41200 | JYR(Housing):<br>SK-39603-WH01      |
|          | Pin2     | N  |                                     | JYR(Crimp Socket):<br>DZ-39631-1000 |
| CN2      | Pin1, 2  | V+ | JYR(Header):<br>M01-100041234-41200 | JYR(Housing):<br>SK-39604-WH00      |
|          | Pin3, 4  | V- |                                     | JYR(Crimp Socket):                  |

**MPO130E-xx Series:** 61.8 x 80.0 x 39.8mm(WxLxH)



# Medical / Industrial AC-DC Power Supply

## MPO200 Series



### Highlights and Features

- Up to 200W Convection Cooling
- Compact 2"x4"x1.12" Low Profile
- Medical and ITE Approvals
- Class B Conducted and Radiated EMI
- Type BF Medical Equipment, 2 x MOPP
- Class I and Class II Installations
- Standby Power < 0.5W Typical
- High Efficiency Up to 95 %
- 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 4 Ed
- EN 55011/EN 55032, Class B

### General Description

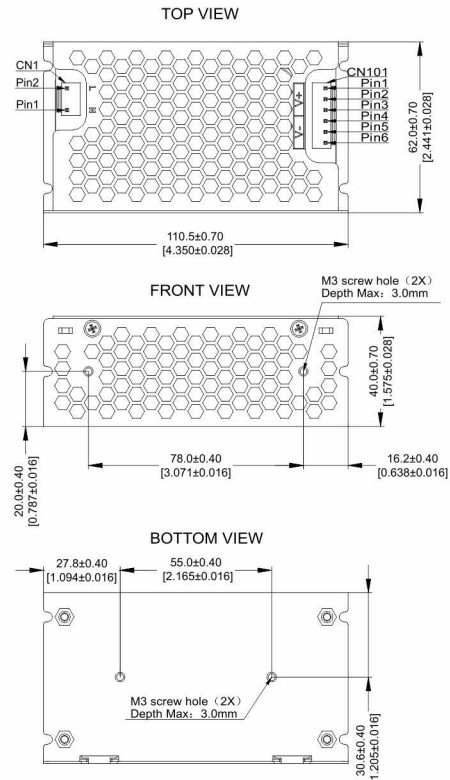
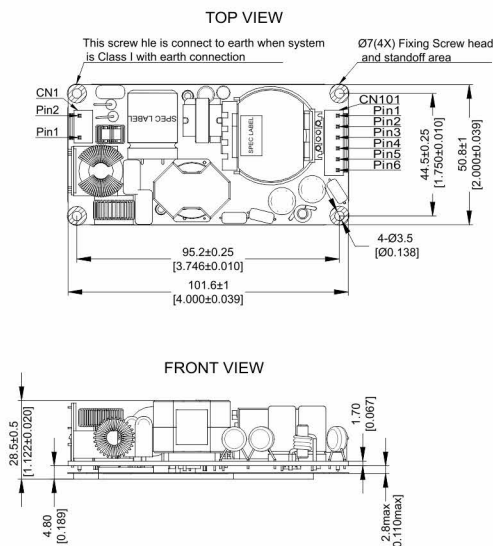
The MPO200 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as infusion pump, blood pressure or body temperature meter, nebulizer, endoscopy equipment, ECG machine, medical computer monitors, etc. Packed in the industry standard 2"x4" footprint, the MPO200 can deliver up to 200W with convection cooling. With IEC60601-1 & IEC62368-1 certifications, the unit can be used in both Medical and ITE applications with either Class I & Class II (no ground wire) installations.

### Model List

| Model        | Input Voltage (Vac) | Nominal Output Voltage (V) | Max. Current (A) | Max. Power (W) | Peak Power (W) |
|--------------|---------------------|----------------------------|------------------|----------------|----------------|
| MPO200A/E12J | 90 - 264            | 12                         | 16.67            | 200            | --             |
| MPO200A/E24J | 90 - 264            | 24                         | 8.33             | 200            | --             |
| MPO200A/E48J | 90 - 264            | 48                         | 4.17             | 200            | --             |

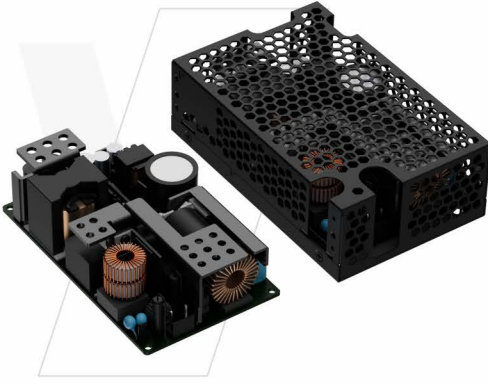
**MPO200A-xx Series:** 50.8 x 101.6 x 28.5mm(WxLxH)

**MPO200E-xx Series:** 62.0 x 110.5 x 40.0mm(WxLxH)



| Terminal | Function | Product Connector | Client Connector                 |
|----------|----------|-------------------|----------------------------------|
| CN1      | Pin1     | N                 | JYR(Housing): SK-39603-WH01      |
|          | Pin2     | L                 | JYR(Crimp Socket): DZ-39631-1000 |
| CN101    | Pin1,2,3 | V+                | JYR(Housing): SK-39606-WH01      |
|          | Pin4,5,6 | V-                | JYR(Crimp Socket): DZ-39631-1000 |

# 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

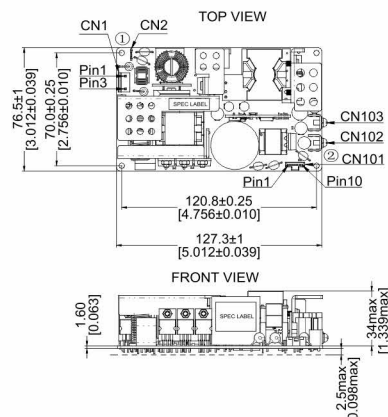
The MPO400 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as patient electric bed, aesthetic device, IVD equipment, mobility E-wheelchair, CAPA mode ventilators, oral irrigator, etc. Packed in the industry standard 3"x5" footprint, the MPO400 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) |
|--------------|---------------------|----------------------------|------------------|--------------------------|--------------------------|
| MPO400A/E12J | 90 - 264            | 12                         | 33.3             | 300                      | 400                      |
| MPO400A/E19J | 90 - 264            | 19                         | 21.0             | 300                      | 400                      |
| MPO400A/E24J | 90 - 264            | 24                         | 16.7             | 300                      | 400                      |
| MPO400A/E48J | 90 - 264            | 48                         | 8.4              | 300                      | 400                      |

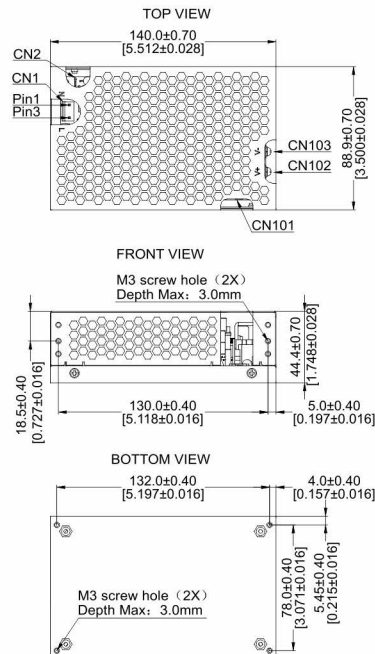
**MPO400A-xx Series:** 76.5 x 127.3 x 38.1mm(WxLxH)

**MPO400E-xx Series:** 88.9 x 140.0 x 44.4mm(WxLxH)



During EMI testing, this two-hole ① and ② connection must be reliably and effectively grounded

| Terminal | Function           | Product Connector                | Client Connector                              |
|----------|--------------------|----------------------------------|-----------------------------------------------|
| CN1      | Pin1 N             | JYR(Header): M01-100031231-41200 | JYR(Housing): SK-39603-WH01                   |
|          | Pin2 NC            |                                  | JYR(Crimp Socket): DZ-39631-1000              |
|          | Pin3 L             |                                  |                                               |
| CN2      | PE                 | KY(Header): PCR187 0.8           | WST(D7 TYPE) D70419BS-2A                      |
| CN102    | V+                 | TML(Header): MFE 04325           | WST(RING TONGUE SHAPE): B40319BS-2(M3 Screw)  |
| CN103    | V-                 |                                  |                                               |
| CN101    | Pin1 S+            | Pin6 STBY-                       | Product Connector: CJT(Header): AW1008WV-S-XP |
|          | Pin2 S-            | Pin7 STBY+                       |                                               |
|          | Pin3 PG            | Pin8 STBY-                       | Client Connector: CJT(Housing): A1008H-XP     |
|          | Pin4 STBY-         | Pin9 STBY+                       |                                               |
|          | Pin5 Remote_ON/OFF | Pin10 STBY-                      | CJT(Crimp): A1008-T                           |



**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

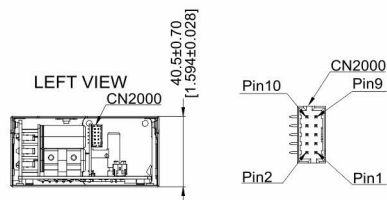
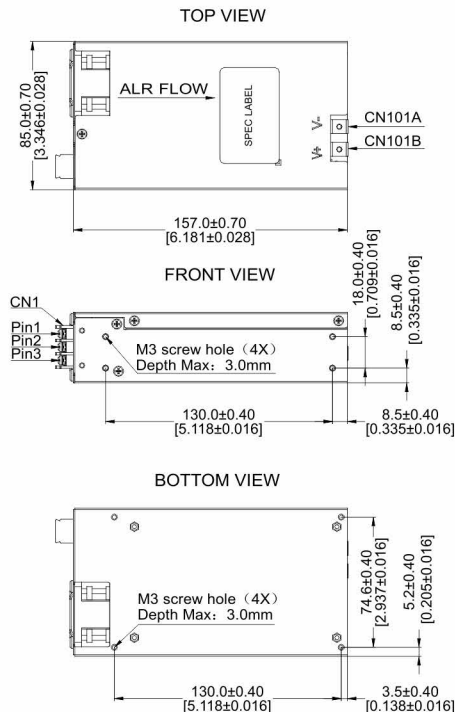
**General Description**

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            |

**MPE600A-xx Series:** 85.0 x 157.0 x 40.5mm(WxLxH)



| Terminal | Function      | Product Connector                                |
|----------|---------------|--------------------------------------------------|
| CN1      | Pin1 N        | TML<br>TB BHN 1.5-03-7.62-05-C TML<br>(M3 Screw) |
|          | Pin2 $\oplus$ |                                                  |
|          | Pin3 L        |                                                  |
| CN101A   | V-            |                                                  |
| CN101B   | V+            |                                                  |

|        |                     |                    |                                                                                                                           |
|--------|---------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------|
| CN2000 | Pin1 S+             | Pin6 Current Share | Product Connector:<br>WCON 3121B-10R080K00R3<br>Client Connector:<br>Housing WCON 3121B-2H075802<br>Comp WCON 3121-TP5002 |
|        | Pin2 S-             | Pin7 STBY+         |                                                                                                                           |
|        | Pin3 Reserved       | Pin8 STBY+         |                                                                                                                           |
|        | Pin4 Remote Control | Pin9 STBY-         |                                                                                                                           |
|        | Pin5 PG             | Pin10 STBY-        |                                                                                                                           |

## MPE650 Series



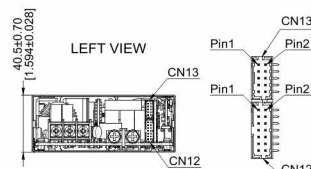
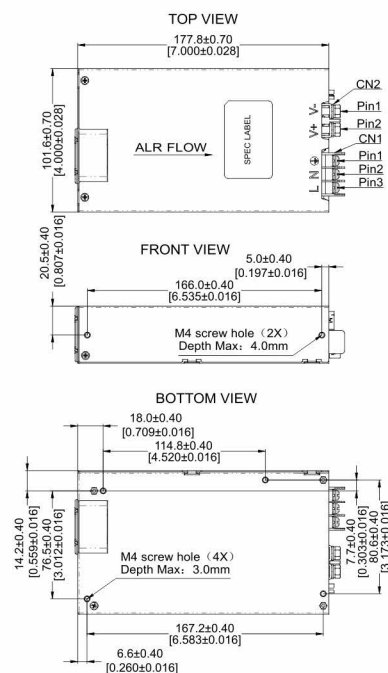
## General Description

The MPE650 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 MPE650 can deliver up to 650W 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) |
|------------|---------------------|----------------------------|---------------------------|------------------|----------------|
| MPE650A12T | 90 - 264            | 12                         | 11.4 ~ 12.6               | 54.2             | 650            |
| MPE650A24T | 90 - 264            | 24                         | 22.8 ~ 25.2               | 27.0             | 650            |
| MPE650A36T | 90 - 264            | 36                         | 34.2 ~ 37.8               | 18.2             | 650            |
| MPE650A48T | 90 - 264            | 48                         | 45.6 ~ 50.4               | 13.5             | 650            |

MPE650A-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+                          |
|          | Pin2 R         | Pin9 STBY-                          |
|          | Pin3 PG        | Pin10 STBY-                         |
|          | Pin4 REDERIVED | Pin11 S+                            |
|          | Pin5 REDERIVED | Pin12 S-                            |
| CN13     | Pin6 REDERIVED | Pin13 Current_Share                 |
|          | Pin7 STBY+     | Pin14 STBY-                         |
|          | Pin1 CSV+      | Pin6 REDERIVED                      |
|          | Pin2 CSV-      | Pin7 A0                             |
|          | Pin3 SDA       | Pin8 A1                             |
| Pin4 SCL | Pin9 A2        | Pin10 REDERIVED                     |
|          | Pin5 REDERIVED | Pin10 REDERIVED                     |

## MPE800 Series



## Highlights and Features

- 800W 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

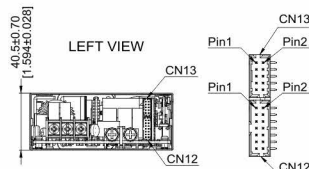
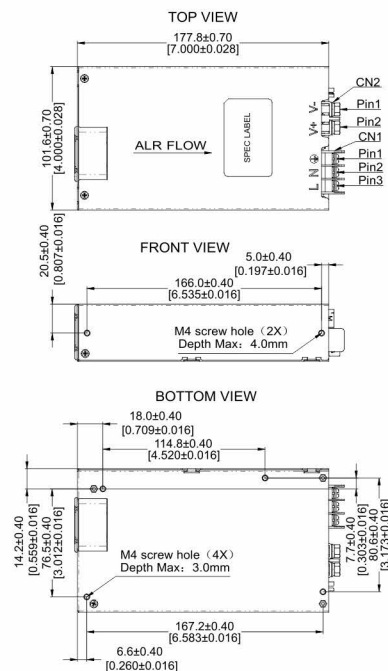
## General Description

The MPE800 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 MPE800 can deliver up to 800W 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) |
|------------|---------------------|----------------------------|---------------------------|------------------|----------------|
| MPE800A12T | 90 - 264            | 12                         | 11.4 ~ 12.6               | 66.6             | 800            |
| MPE800A24T | 90 - 264            | 24                         | 22.8 ~ 25.2               | 33.3             | 800            |
| MPE800A36T | 90 - 264            | 36                         | 34.2 ~ 37.8               | 22.2             | 800            |
| MPE800A48T | 90 - 264            | 48                         | 45.6 ~ 50.4               | 16.6             | 800            |

MPE800A-xx Series: 101.6 x 177.8 x 40.5mm(WxLxH)



| Terminal | Function    | Product Connector                   |
|----------|-------------|-------------------------------------|
| CN1      | Pin1 N      | TML                                 |
|          | Pin2 $\Phi$ | 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:<br>WCON 3121-14R08B00R1<br>Client Connector:<br>Housing WCON 3121-2407B02<br>Crimp 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:<br>WCON 3112B-10R08B00R1<br>Client Connector:<br>Housing WCON 3112B-2407B02<br>Crimp WCON 3112-17P002 |
|      | Pin7 STBY+     | Pin14 STBY-         |                                                                                                                          |
|      | Pin1 CSV+      | Pin6 REDERIVED      |                                                                                                                          |
|      | Pin2 CSV-      | Pin7 A0             |                                                                                                                          |
|      | Pin3 SDA       | Pin8 A1             |                                                                                                                          |
| CN12 | Pin4 SCL       | Pin9 A2             |                                                                                                                          |
|      | Pin5 REDERIVED | Pin10 REDERIVED     |                                                                                                                          |

# MPE1000 Series



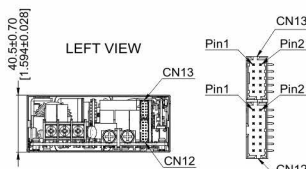
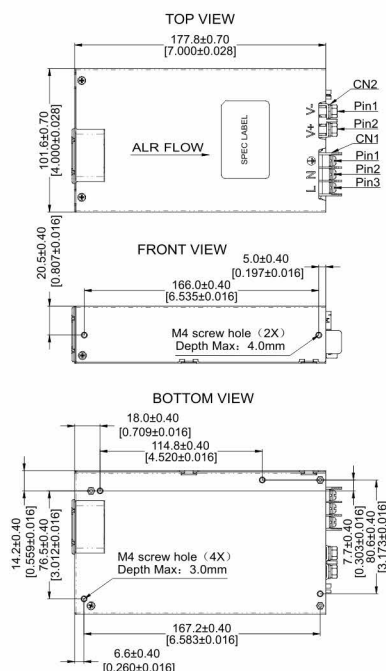
## General Description

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:<br>WCON 3121-14R08BK00R1<br>Client Connector:<br>Housing WCON 3121-2407B02<br>Comp 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:<br>WCON 3117B-10R08BK00R1<br>Client Connector:<br>Housing WCON 3121B-2407B02<br>Comp 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

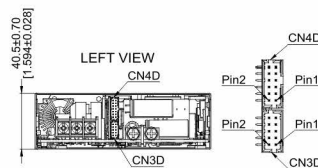
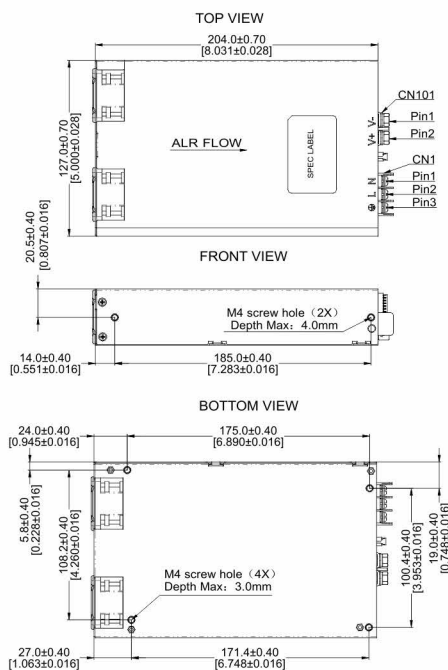
**MPE1250 Series****General Description**

The MPE1250 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 MPE1250 can deliver up to 1250W 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) |
|-------------|---------------------|----------------------------|---------------------------|------------------|----------------|
| MPE1250A24T | 90 - 264            | 24                         | 22.8 ~ 25.2               | 52.08            | 1250           |
| MPE1250A36T | 90 - 264            | 36                         | 34.2 ~ 37.8               | 37.72            | 1250           |
| MPE1250A42T | 90 - 264            | 42                         | 39.9 ~ 44.1               | 29.76            | 1250           |
| MPE1250A48T | 90 - 264            | 48                         | 45.6 ~ 50.4               | 26.04            | 1250           |

**MPE1250A-xx Series:** 127.0 x 204.0 x 40.5mm(WxLxH)



| Terminal | Function       | Product Connector                   |
|----------|----------------|-------------------------------------|
| CN1      | Pin1 N         | TML TB BHK 3-03-9.52-02-T2-G1-C     |
|          | Pin2 (Φ)       | 13kgf.cm(M4 Screw)                  |
|          | Pin3 L         |                                     |
| CN101    | Pin1 V-        | TML                                 |
|          | Pin2 V+        | PIN MFE 04541-T16.8kgf.cm(M5 Screw) |
| CN4D     | Pin1 R+        | Pin8 STBY+                          |
|          | Pin2 R-        | Pin9 STBY-                          |
|          | Pin3 PG+       | Pin10 STBY-                         |
|          | Pin4 PG+       | Pin11 S+                            |
|          | Pin5 REDERIVED | Pin12 S-                            |
| CN3D     | Pin6 REDERIVED | Pin13 Current, Share                |
|          | Pin7 STBY+     | Pin14 STBY-                         |
|          | Pin1 CSV+      | Pin6 REDERIVED                      |
|          | Pin2 CSV-      | Pin7 A0                             |
|          | Pin3 SCA       | Pin8 A1                             |
| CN3D     | Pin4 SCL       | Pin9 A2                             |
|          | Pin5 REDERIVED | Pin10 REDERIVED                     |

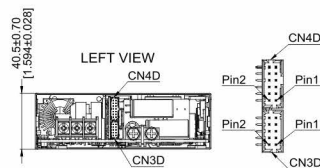
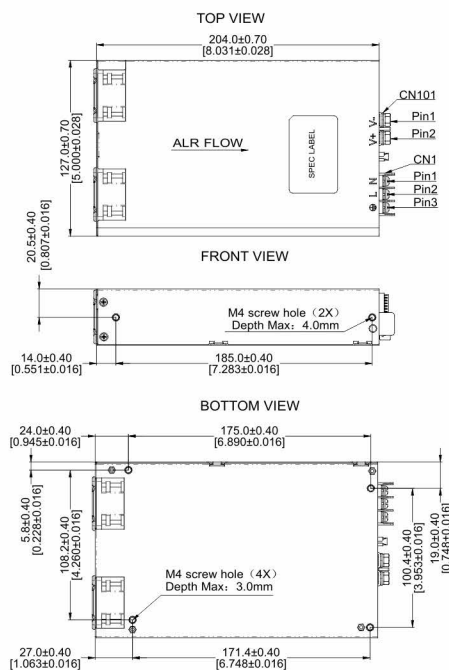
**MPE1500 Series****General Description**

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                         | 22.8 ~ 25.2               | 62.50            | 1500           |
| MPE1500A36T | 90 - 264            | 36                         | 34.2 ~ 37.8               | 41.66            | 1500           |
| MPE1500A42T | 90 - 264            | 42                         | 39.9 ~ 44.1               | 35.71            | 1500           |
| MPE1500A48T | 90 - 264            | 48                         | 45.6 ~ 50.4               | 31.25            | 1500           |

**MPE1500A-xx Series:** 127.0 x 204.0 x 40.5mm(WxLxH)



| Terminal | Function       | Product Connector                   |
|----------|----------------|-------------------------------------|
| CN1      | Pin1 N         | TML TB BHK 3-03-9.52-02-T2-G1-C     |
|          | Pin2 (Φ)       | 13kgf.cm(M4 Screw)                  |
|          | Pin3 L         |                                     |
| CN101    | Pin1 V-        | TML                                 |
|          | Pin2 V+        | PIN MFE 04541-T16.8kgf.cm(M5 Screw) |
| CN4D     | Pin1 R+        | Pin8 STBY+                          |
|          | Pin2 R-        | Pin9 STBY-                          |
|          | Pin3 PG+       | Pin10 STBY-                         |
|          | Pin4 PG+       | Pin11 S+                            |
|          | Pin5 REDERIVED | Pin12 S-                            |
| CN3D     | Pin6 REDERIVED | Pin13 Current Share                 |
|          | Pin7 STBY+     | Pin14 STBY-                         |
|          | Pin1 CSV+      | Pin6 REDERIVED                      |
|          | Pin2 CSV-      | Pin7 A0                             |
|          | Pin3 SDA       | Pin8 A1                             |
| CN3D     | Pin4 SCL       | Pin9 A2                             |
|          | Pin5 REDERIVED | Pin10 REDERIVED                     |

# MPC4 Series



## Highlights and Features

- 1500W Max. Output Power for Universal AC Input
- Compact 3.5" 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 4 Outputs
- Analog and Digital Voltage Trimming
- Up to 70 °C Ambient Operation
- PMBus Ver1.2 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

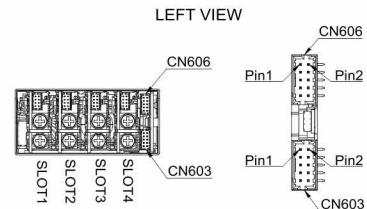
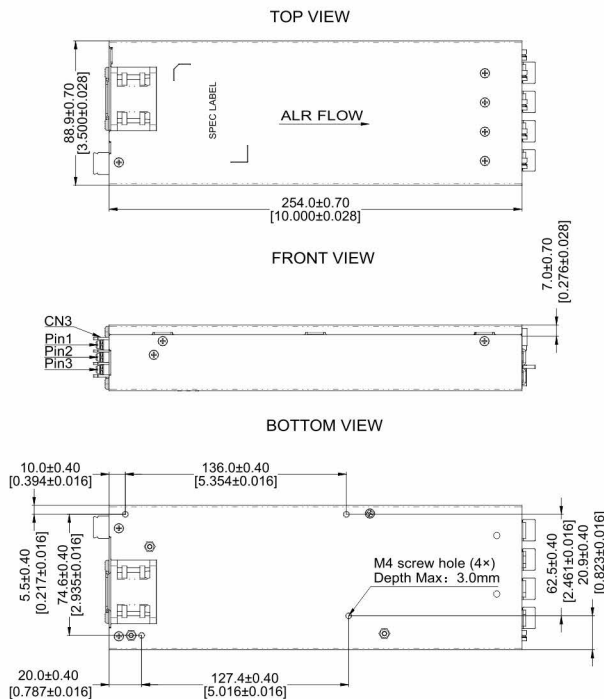
## General Description

The MPC4 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 3.5" x 10" footprint, the MPC4 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. 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) |
|-------|--------------------------|---------------------|--------------------|-----------------------|
| MPC4  | 4                        | 90~180              | 2-60               | 750                   |
|       |                          | 180~264             |                    | 1500                  |

MPC4-xx Series: 88.9 x 254.0 x 40.5mm(WxLxH)



| Terminal | Function | Product Connector                             |
|----------|----------|-----------------------------------------------|
| CN3      | Pin1 N   | TML TB BHN 1.5-03-7-62-05-C 8kgf.cm(M3 Screw) |
|          | Pin2 ⊕   |                                               |
|          | Pin3 L   |                                               |

|       |               |                |                                                                                                                 |
|-------|---------------|----------------|-----------------------------------------------------------------------------------------------------------------|
| CN603 | Pin1 AC FALL+ | Pin6 NC        | Product Connector: WCON 3121B-14RG08K00R1 Client Connector: Housing WCON 3121B-24075802 Crimp: WCON 3121-TP6002 |
|       | Pin2 AC FALL- | Pin7 STBY+     |                                                                                                                 |
|       | Pin3 G/R+     | Pin8 STBY+     |                                                                                                                 |
|       | Pin4 G/R-     | Pin9 STBY-     |                                                                                                                 |
|       | Pin5 NC       | Pin10 STBY-    |                                                                                                                 |
| CN606 | Pin1 CSV+     | Pin6 RESERVED  | Product Connector: WCON 3121B-10RG08K00R1 Client Connector: Housing WCON 3121B-24075802 Crimp: WCON 3121-TP6002 |
|       | Pin2 CSV-     | Pin7 A0        |                                                                                                                 |
|       | Pin3 SDA      | Pin8 A1        |                                                                                                                 |
|       | Pin4 SCL      | Pin9 A2        |                                                                                                                 |
|       | Pin5 RESERVED | Pin10 SMBALERT |                                                                                                                 |

## 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 Ver1.2 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

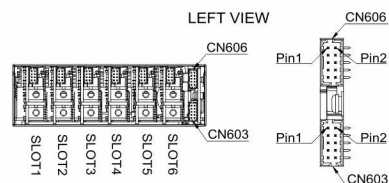
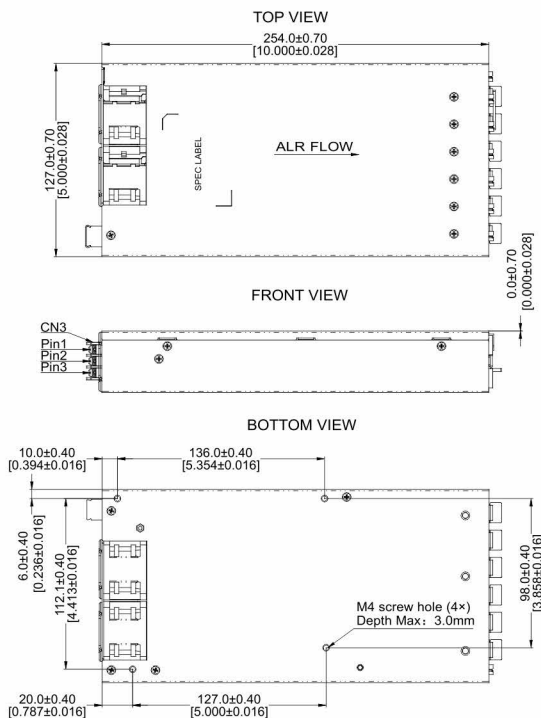
## General Description

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                  |

MPC6-xx Series: 127.0 x 254.0 x 40.5mm(WxLxH)



| Terminal | Function |          | Product Connector                                    |          |                                                                                                                             |
|----------|----------|----------|------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------|
| CN3      | Pin1     | N        | TML<br>TB BHN 1.5-03-7.62-05-C<br>8kgf.cm (M3 Screw) |          |                                                                                                                             |
|          | Pin2     | (Ⓢ)      |                                                      |          |                                                                                                                             |
|          | Pin3     | L        |                                                      |          |                                                                                                                             |
| CN603    | Pin1     | AC FALL+ | Pin6                                                 | NC       | Product Connector:<br>WCON 3121B-14RG08BK00R1<br>Client Connector:<br>Housing WCON 3121B-2H0275R02<br>Crmp WCON 3121-TP5002 |
|          | Pin2     | AC FALL- | Pin7                                                 | STBY+    |                                                                                                                             |
|          | Pin3     | G/R+     | Pin8                                                 | STBY+    |                                                                                                                             |
|          | Pin4     | G/R-     | Pin9                                                 | STBY-    |                                                                                                                             |
|          | Pin5     | NC       | Pin10                                                | STBY-    |                                                                                                                             |
| CN606    | Pin1     | C5V+     | Pin6                                                 | RESERVED | Product Connector:<br>WCON 3121B-10RG08BK00R1<br>Client Connector:<br>Housing WCON 3121B-2H0275R02<br>Crmp WCON 3121-TP5002 |
|          | Pin2     | C5V-     | Pin7                                                 | A0       |                                                                                                                             |
|          | Pin3     | SDA      | Pin8                                                 | A1       |                                                                                                                             |
|          | Pin4     | SCL      | Pin9                                                 | A2       |                                                                                                                             |
|          | Pin5     | RESERVED | Pin10                                                | SMBALERT |                                                                                                                             |
|          |          |          |                                                      |          |                                                                                                                             |

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**长城医疗电源**

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