

# 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

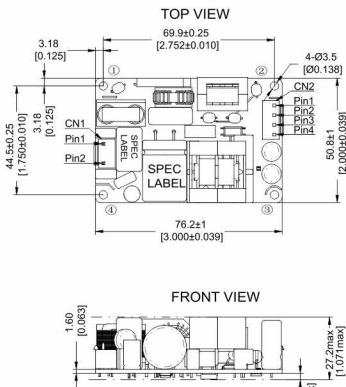
The MPO130 is ideal for applications where high efficiency, high reliability, low cost and low profile are needed, such as infusion pump, blood pressure or body temperature meter, nebulizer, oral irrigator, medical monitors, etc. Packed in the industry standard 2"x3" size, the MPO130 can deliver up to 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)

MPO130E-xx Series: 61.8 x 80.0 x 39.8mm(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): SK-39603-WH01 | JYR(Housing): SK-39603-WH01      |
|          | Pin2 N     | M01-100031231-41200        | JYR(Crimp Socket): DZ-39631-1000 |
| CN2      | Pin1, 2 V+ | JYR(Header): SK-39604-WH00 | JYR(Housing): SK-39604-WH00      |
|          | Pin3, 4 V- | M01-100041234-41200        | JYR(Crimp Socket): DZ-39631-1000 |

