

Open Frame Type Switching Power Supply

FEATURES

- Medical 60601-1 3rd Edition approved
- U-Channel, End fan and Top fan types available
- Optional high efficiency OR-ing FET diode Current share function
- 2 year warranty

ELECTRICAL SPECIFICATIONS

- Input range : 90-264VAC
- Frequency : 47 - 63Hz
- Power Factor : > 0.95 @ 115VAC; > 0.90 @ 230VAC @full load
- Inrush current : < 25A peak @ 115VAC; < 50A peak @ 230VAC cold start @ 25°C
- Input current (rms) : 4.5A @ 115VAC; 2.25A @ 230VAC max.
- Efficiency : > 83% typical @full load, 115VAC
- Leakage current : < 300uA @264VAC
- Maximum power : 360 Watts with 30CFM forced air cooling (U-channel type)
- Hold-up time : > 20ms typical @360 watt load, 115VAC
- Short circuit protection : Auto recovery
- Over load protection : 110% to 150% maximum rating, Auto-recovery
- Over voltage protection : 130% max. above nominal output, shutdown and latch off
- Current share (Single wire) : Up to 4 units can be paralleled [Optional] within 10% accuracy at full load.
- Remote inhibit function
- +5VSB/0.25A convection cooling, 1.0A forced air cooling
- +12V/1A DC fan Output

ENVIRONMENTAL

- Operating temperature : 0 to +70°C (Refer to derate curve on the last page)
- Storage temperature: -20°C to +85°C
- Humidity: Non-condensing 0% to 90%
- MTBF : > 100,000 hours @full load and 25°C ambient temperature

DC OUTPUT & FEATURES

| Model No. (Note 1) | Output Voltage | Minimum Load | Maximum Load Convection (Note 2) | Maximum Load (Note 3) | Output Watts | O/P Regulation (Note 4) | Ripple & Noise(Vp-p) (Note 5) |
|-------------------------|----------------|--------------|--|--------------------------|--------------|-------------------------------|-------------------------------------|
| PW-M360B-1Y120-X (D) | +12V | 0A | 22.5A | 30A | 360W | ±1% | 120mV |
| PW-M360B-1Y240-X (D) | +24V | 0A | 11.25A | 15A | 360W | ±1% | 240mV |
| PW-M360B-1Y300-X (D) | +30V | 0A | 9A | 12A | 360W | ±1% | 300mV |
| PW-M360B-1Y360-X (D) | +36V | 0A | 7.5A | 10A | 360W | ±1% | 360mV |
| PW-M360B-1Y480-X (D) | +48V | 0A | 5.63A | 7.5A | 360W | ±1% | 480mV |
| PW-M360B-1Y540-X (D) | +54V | 0A | 5.01A | 6.67A | 360W | ±1% | 540mV |
| PW-M360B-1Y570-X (D) | +57V | 0A | 4.74A | 6.32A | 360W | ±1% | 570mV |

Note: 1. Option: X=U, U-Channel, X=S, End Fan, X=T, Fan on top; D=Current share

2. Option U, max output 270W @ +40°C ambient max.

3. Option U: max output 360W force air 30CFM cooling, Option S and T: max output 360W, +50°C ambient max.

4. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.

5. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.



RoHS compliant

U-channel type

Dimension : L203.2 x W118.5 x H42.0 mm (8" x 4.66" x 1.65")

Weight : 0.86 kgs. (1.90 lbs.)

End Fan type (40x40x20mm DC Fan)

Dimension : L229.4 x W118.5 x H43.0 mm (9.03" x 4.66" x 1.69")

Weight : 0.98 kgs. (2.16 lbs.)

Top Fan type (60x60x15mm DC Fan)

Dimension : L203.2 x W118.5 x H66 mm (8" x 4.66" x 2.60")

Weight : 0.99 kgs. (2.18 lbs.)

SAFETY STANDARDS

UL60601-1 3rd Edition

CSA-C22.2 No.60601-1 3rd Edition

EN60601-1 3rd Edition

IEC EN60601-1 3rd Edition

EMC STANDARDS

EN60601-1-2

FCC Part 18 Class B

EN55011 Class B

CE



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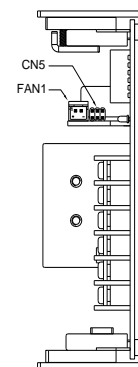
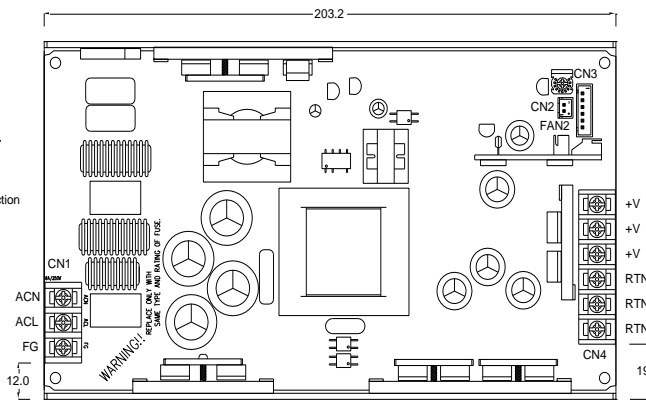
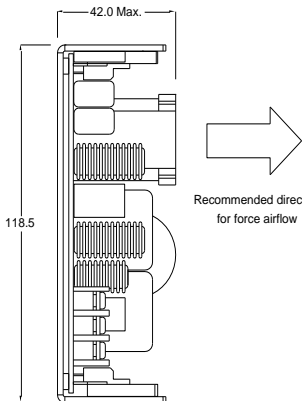
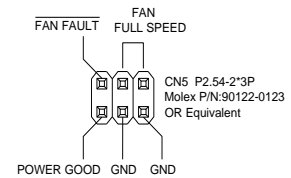
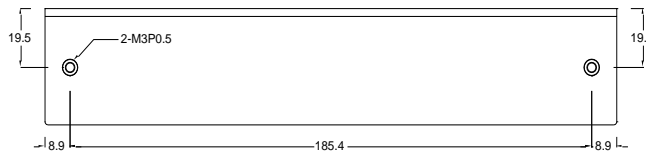
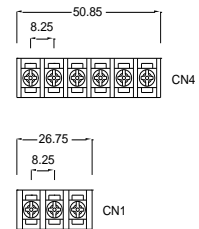
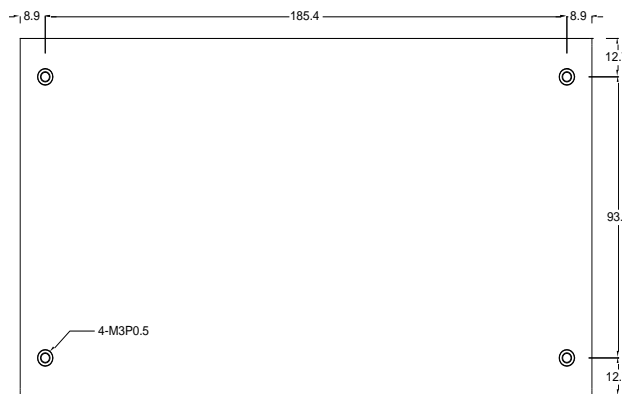
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REV.2.1

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MECHANICAL SPECIFICATION

Option : U, U-Channel



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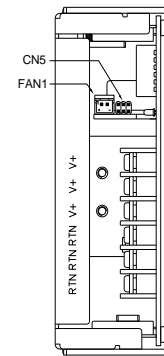
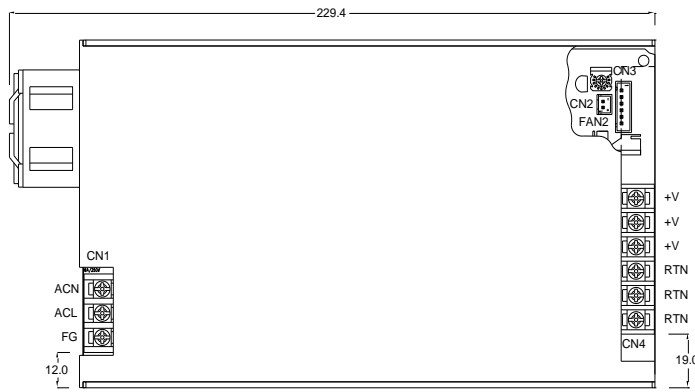
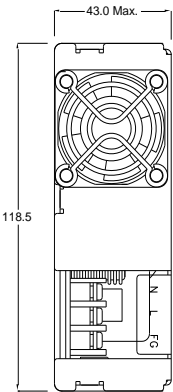
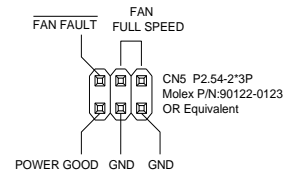
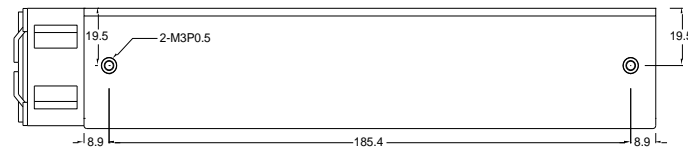
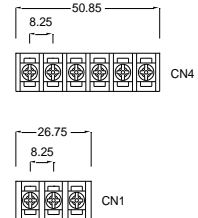
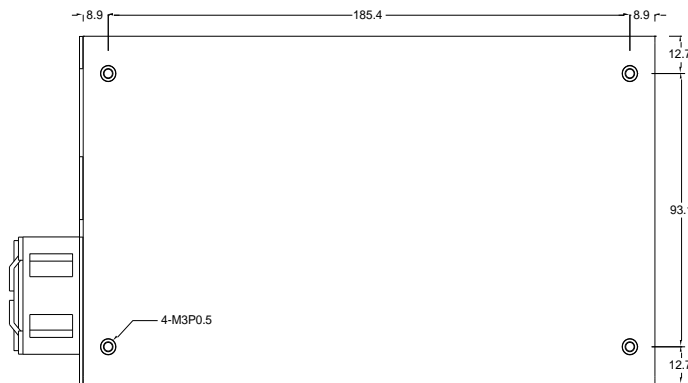
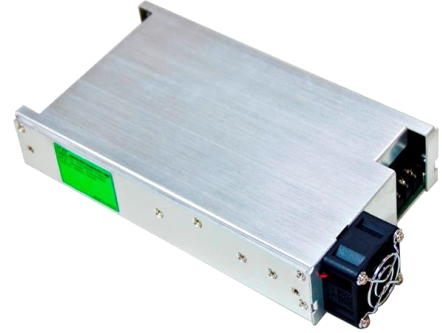
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MECHANICAL SPECIFICATION

Option : S, End Fan



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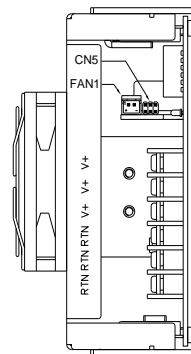
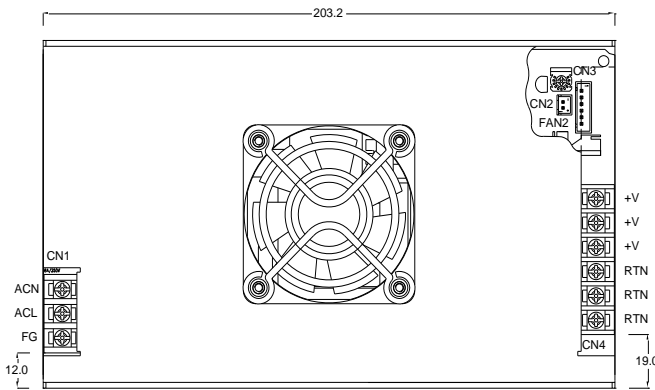
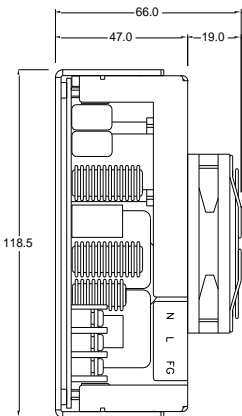
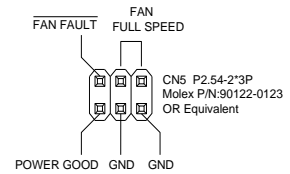
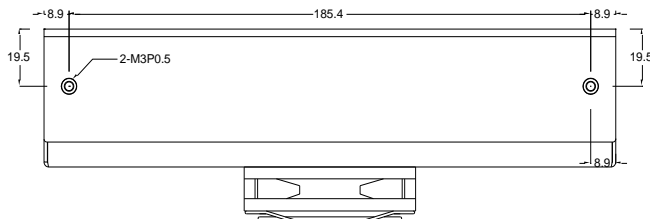
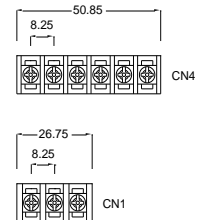
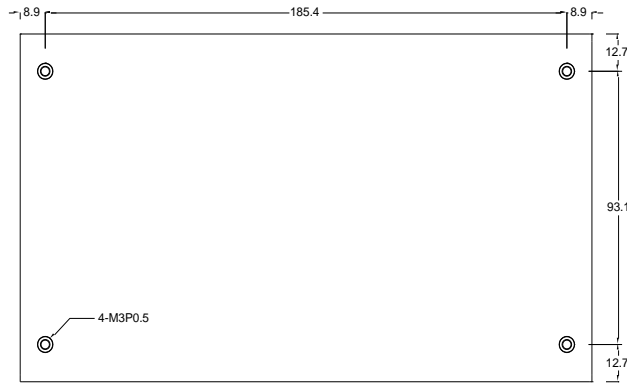
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MECHANICAL SPECIFICATION

Option : T, Fan on top



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MECHANICAL SPECIFICATION

MATCHING CONNECTORS

CN1: Input Connector

3-Pole Terminal block pitch: 8.25mm rate 20A/300V

| Pin # | Signal |
|-------|------------|
| 1 | AC Neutral |
| 2 | AC Line |
| 3 | F.G. |

CN2: +5VSB Output Connector

JST B2B-XH-A pitch:2.5mm or equivalent, mates with female housing JST XHP-2 or equivalent

| Pin # | Signal |
|-------|--------|
| 1 | +5VSB |
| 2 | GND |

CN3: Remote Sense Connector

JST B6B-XH-A pitch: 2.5mm or equivalent, mates with female housing JST XHP-6 or equivalent

| Pin # | Signal |
|-------|--------------------------|
| 1 | Sense + |
| 2 | Sense - |
| 3 | +5VSB |
| 4 | GND |
| 5 | INHIBIT (Remote control) |
| 6 | Current Share |

INHIBIT: Logic level HIGH(+5V): Enable, Logic level LOW: Disable(0V)

CN4: Main Output Connector

6-Pole Terminal block pitch: 8.25mm rate 20A/300V

| Pin # | Signal |
|-------|--------|
| 1 | +Vo |
| 2 | +Vo |
| 3 | +Vo |
| 4 | RTN |
| 5 | RTN |
| 6 | RTN |

FAN1: Fan Output Connector

JST S2B-XH-A pitch: 2.5mm or equivalent, mates with female housing JST XHP-2 or equivalent

| Pin # | Signal |
|-------|-------------|
| 1 | +12VDC FAN+ |
| 2 | +12VDC FAN- |

FAN2: Fan Output Connector

JST B2B-XH-A pitch: 2.5mm or equivalent, mates with female housing JST XHP-2 or equivalent

| Pin # | Signal |
|-------|-------------|
| 1 | +12VDC FAN+ |
| 2 | +12VDC FAN- |



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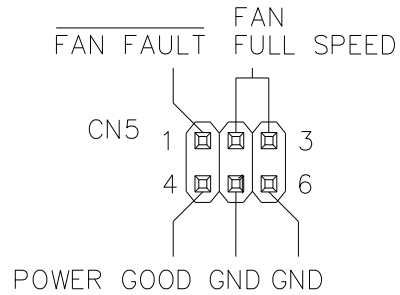
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MECHANICAL SPECIFICATION

CN5: Fan control & Power Good Signal Connector

JST RF-H062TD-1130 pitch: 2.54mm or equivalent, mates with female housing JST RF-06 or equivalent

| Pin # | Signal |
|-------|----------------|
| 1 | FAN FAULT |
| 2, 3 | FAN FULL SPEED |
| 4 | POWER GOOD |
| 5 | GND |
| 6 | GND |

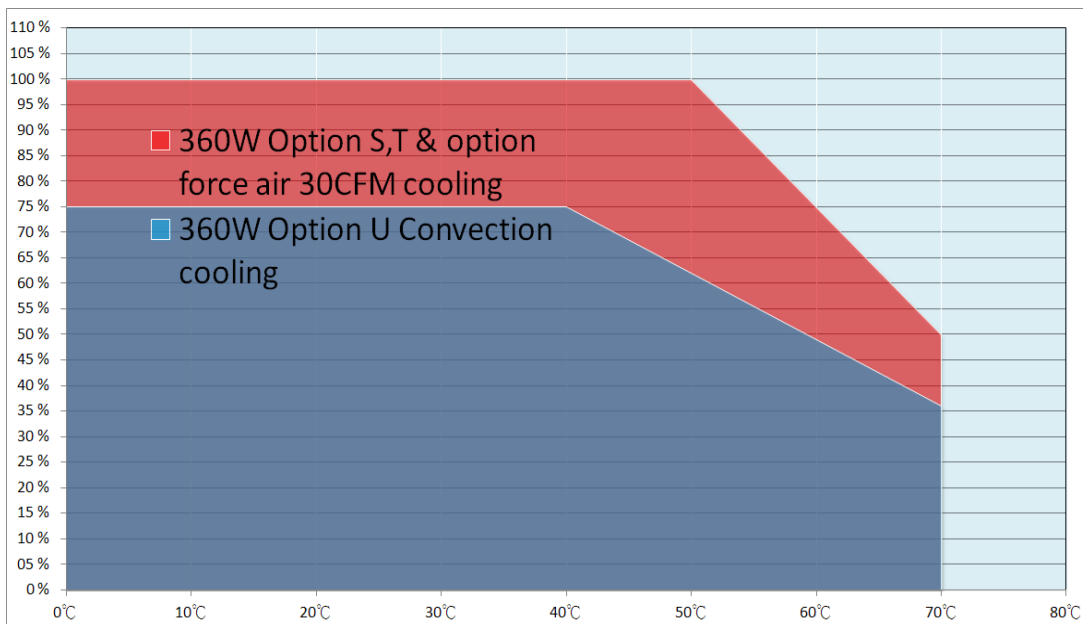


FAN FAULT: Fan status indication, Fan Good: Logic level HIGH(+5V), Fan Fault: Logic level LOW(0V)

FAN FULL SPEED: Short these 2 pins (#2 and #3) with mini-jumper to get highest fan speed

POWER GOOD: Power Good: Logic level HIGH(+5V), Power Fault: Logic LOW(0V)

DERATING CURVE



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