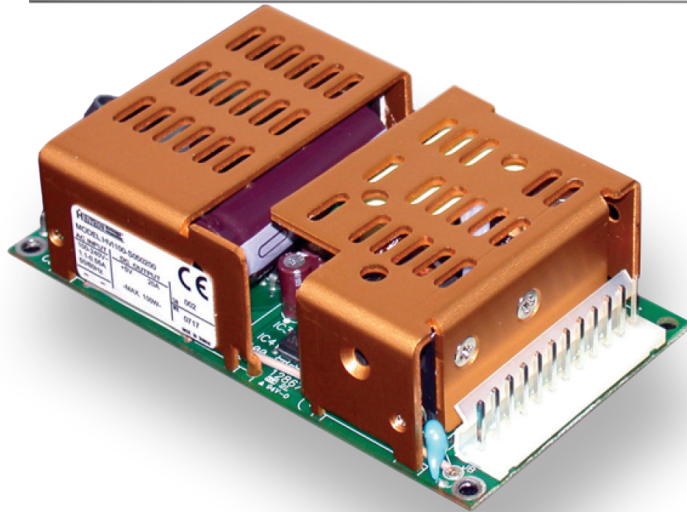


APS100MI SERIES:



100 Watt Medical Switcher

- 4.50 x 2.50 x 1.20" Open Frame PCB

Features:

- Universal AC Input
- EN6100-3-2 Class A Compliant
- High Density Open-Frame Package
- International Medical Safety Approvals
- 2 Year Warranty

INPUT:

| | |
|------------------|-----------------------------------|
| Input Voltage | Universal Input (90~264 VAC) |
| Input Frequency | 47-63Hz |
| Inrush Current | 9.68ArmsA @ 240 VAC Cold Start |
| Input Current | 1.8A (max continuous) |
| Input Protection | Dual Fuse |
| Hold-Up Time | 12.8mS @ 115 VAC / 76mS @ 230 VAC |
| Leakage Current | <189µA @ 230 VAC Maximum |
| Power Factor | EN61000-3-2 Class A Compliant |

GENERAL:

| | |
|-----------------------|-------------------------------------------------------|
| Efficiency | 74~80% minimum |
| Operating Temperature | 0-50°C Full Load, derate linearly to 50% Load at 70°C |
| Storage Temperature | -20°C to +85°C |
| Over-Temp Protection | Included |
| Cooling | Convection Cooled Operation |
| Operating Humidity | 5-90% RH, Non-Condensing |
| Vibration | 5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis |
| MTBF | >100k Hrs (according to MIL-HBK-217F) at 30°C |

OUTPUT:

| | |
|--------------------------|---------------------------------------------------|
| Adjustment Range | ±5% (tracking) |
| Minimum Load | 10% on V1 for Multi Output Models Only |
| Regulation | V1 & V2 = ±1%, V3 & V4 = ±5% max |
| Ripple & Noise | ±1% typical pk-pk @ 20MHz |
| Overload Protection | 115-140% of max power (Hiccup Mode) |
| Over Voltage | Latching before 130% of nominal (V1 only) |
| Short Circuit Protection | Trip without damage & auto-recovery |
| Overshoot | Turn-on & off overshoot < 5% over nominal voltage |

EMC:

| | |
|-------------------------|------------------------------------------------|
| Electrostatic Discharge | EN61000-4-2, ±4KV Contact / ±8KV Air Discharge |
| Radiated Susceptibility | EN61000-4-3, 26-1000MHz, 10V/M, 80% AM |
| EFT / Bursts | EN61000-4-4, ±2KV |
| Surges | EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line |
| Conducted Immunity | EN61000-4-6, 0.15-800MHz, 10V, 80% AM |
| Voltage Dips | EN61000-4-100, 95% Dip & 10ms, 30% Dip & 500ms |
| Voltage Interruptions | EN61000-4-11, 95% reduction, 5s |
| Fluctuations & Flicker | EN61000-3-3 |

APPROVALS:

Emissions EN55022 "B", FCC Part 15 Subject J Class B

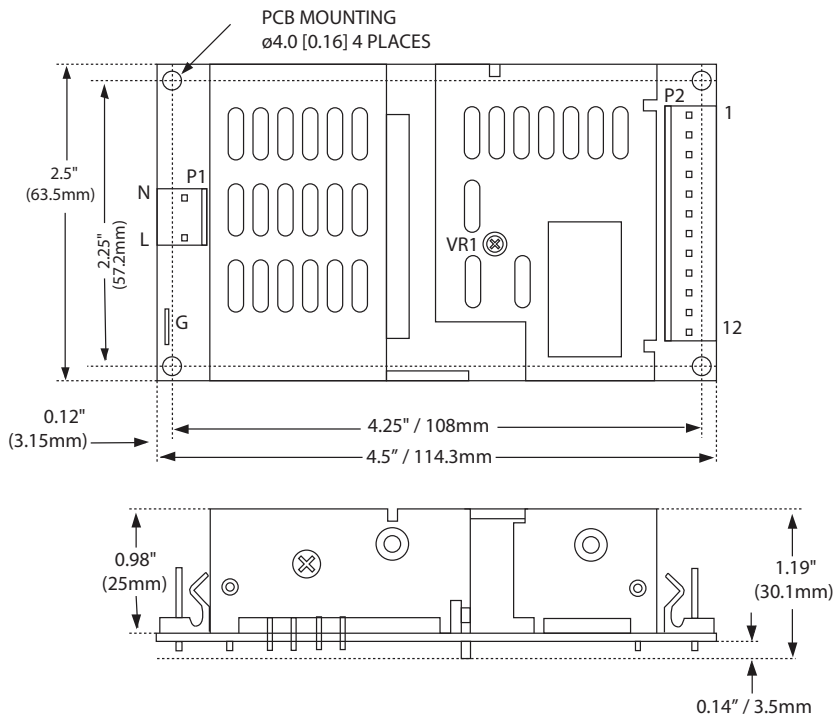
Safety Approvals cTUVus 60601-1
EN60950-1
CE Mark (LVD)

APS100MI Series:

Output Specifications:

| Model: | V1 | A1 | V2 | A2 | V3 | A3 | V4 | A4 |
|------------------|--------|-------|---------|------|---------|------|---------|------|
| APS100MI-033160 | 3.3 V | 16.0A | | | | | | |
| APS100MI-050200 | 5.0 V | 20.0A | | | | | | |
| APS100MI-070143 | 7.0V | 14.3A | | | | | | |
| APS100MI-090111 | 9.0 V | 11.1A | | | | | | |
| APS100MI-120075 | 12.0 V | 7.5A | | | | | | |
| APS100MI-150060 | 15.0 V | 6.0A | | | | | | |
| APS100MI-240042 | 24.0V | 4.2A | | | | | | |
| APS100MI-330030 | 33.0 V | 3.0A | | | | | | |
| APS100MI-480021 | 48.0 V | 2.1A | | | | | | |
| APS100MI-D050I | + 5.0V | 12.0A | +12.0V | 3.0A | | | | |
| APS100MI-D050K | +5.0V | 12.0A | +15.0V | 3.0A | | | | |
| APS100MI-T050II | +5.0V | 10.0A | +12.0 V | 3.0A | -12.0 V | 0.8A | | |
| APS100MI-T050IE | +5.0V | 10.0A | +12.0 V | 3.0A | -5.0 V | 0.8A | | |
| APS100MI-T050KK | +5.0V | 10.0A | +15.0 V | 2.5A | -15.0 V | 0.8A | | |
| APS100MI-T050KE | +5.0V | 10.0A | +15.0 V | 3.0A | - 5.0 V | 0.8A | | |
| APS100MI-T050MI | +5.0V | 10.0A | +24.0 V | 1.5A | -12.0 V | 0.8A | | |
| APS100MI-Q050IIE | +5.0V | 10.0A | +12.0 V | 3.0A | -12.0V | 0.8A | -5.0 V | 0.5A |
| APS100MI-Q050KKE | +5.0V | 10.0A | +15.0 V | 3.0A | -15.0V | 0.8A | -5.0 V | 0.5A |
| APS100MI-Q050MII | +5.0V | 10.0A | +24.0 V | 1.5A | +12.0V | 0.8A | -12.0 V | 0.5A |
| APS100MI-Q050MKK | +5.0V | 10.0A | +24.0 V | 1.5A | +15.0V | 0.8A | -15.0 V | 0.5A |

OUTLINE DRAWING:



Connectors / Pin Assignments

Mating Connector is Molex 5195 / 5239 Series

INPUT CONNECTION:

| Pin | Function |
|------|----------|
| P1-L | LINE |
| P1-N | NEUTRAL |

OUTPUT CONNECTION:

| PIN | FUNCTIONS | | | |
|-------|-----------|--------|---------|--------|
| | SINGLES | DUALS | TRIPLES | QUADS |
| P2-1 | V1 OUT | V1 OUT | V1 OUT | V1 OUT |
| P2-2 | V1 OUT | V1 OUT | V1 OUT | V1 OUT |
| P2-3 | V1 OUT | V1 OUT | V1 OUT | V1 OUT |
| P2-4 | V1 OUT | V1 OUT | V1 OUT | V1 OUT |
| P2-5 | DC COM | DC COM | DC COM | DC COM |
| P2-6 | DC COM | DC COM | DC COM | DC COM |
| P2-7 | DC COM | DC COM | DC COM | DC COM |
| P2-8 | DC COM | DC COM | DC COM | DC COM |
| P2-9 | - | V2 OUT | V2 OUT | V2 OUT |
| P2-10 | - | V2 OUT | V2 OUT | V2 OUT |
| P2-11 | - | - | - | V4 OUT |
| P2-12 | - | - | V3 OUT | V3 OUT |