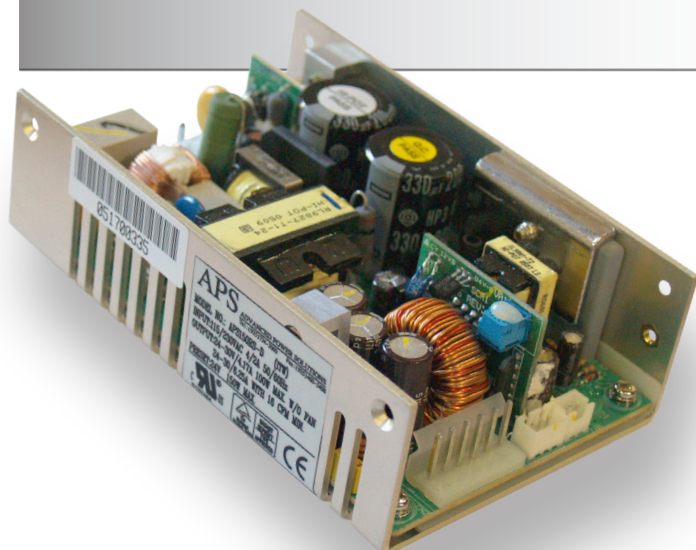


APS200/250Rx SERIES:



200~250 Watt Dual Output Models

- 5.00 x 3.20 x 1.50" U-Frame Package
- 5.00 x 3.20 x 2.00" Top-Mount Fan Package

Features:

- Auto-Ranging AC Input (90-132 / 180-264 VAC)
- Power Factor Correction for EN61000-3-2 Class A Compliance
- High Density Power
- Ruggedized Aluminum Enclosure
- International Safety Approvals
- 2 Year Warranty

INPUT:

| | |
|------------------|---|
| Input Voltage | 90~132 / 180~264 VAC (Auto-Ranging) |
| Input Frequency | 47-63Hz |
| Inrush Current | 35A / 70A Max @ 115/ 230 VAC Cold Start |
| Input Current | 6A/3A @ 100-120/200-240 VAC |
| Input Protection | Single Fuse - T8A / 250VAC |
| Hold-Up Time | 20ms @ 80% Load / Minimum |
| Leakage Current | <1000 μ A @ 240 VAC Maximum |
| Power Factor | EN61000-3-2 Class A Compliant |
| Harmonics | EN61000-3-2 Class A |

GENERAL:

| | |
|-----------------------|--|
| Efficiency | 70% minimum |
| Operating Temperature | 0-70°C, derate linearly to 50% load at 70°C |
| Storage Temperature | -20°C to +85°C |
| Over-Temp Protection | >110°C Shutdown (Ambient) |
| Cooling | 16 cfm airflow required for full load |
| 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 | \pm 5% |
| Minimum Load | 10% to maintain Regulation |
| Regulation | \pm 5% max |
| Ripple & Noise | \pm 1% or 50mV typ. pk-pk @ 20MHz (whichever is greater) |
| Overload Protection | 110-140% of max power (Foldback) |
| Over Voltage | Latching before 130% of nominal |
| Short Circuit Protection | Trip without damage & auto-recovery |
| Transient Response | recovers <2.5ms following a 50% load change |
| Overshoot | Turn-on & off overshoot < 5% over nominal voltage |
| Turn-On Delay | 1 Second maximum at 230VAC |
| Switching Frequency | 25KHz (Fixed) |

EMC:

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

STATUS & CONTROL:

| | |
|-----------------|---|
| Remote on/off | Low signal to short output (hiccup mode) |
| Power Good | high 100- 500mS after DC Regulation goes low at least 1mS before loss of regulation |
| Power Supply On | Green LED on PCB |
| Fan Output | 12 VDC @ 300mA |

APPROVALS:

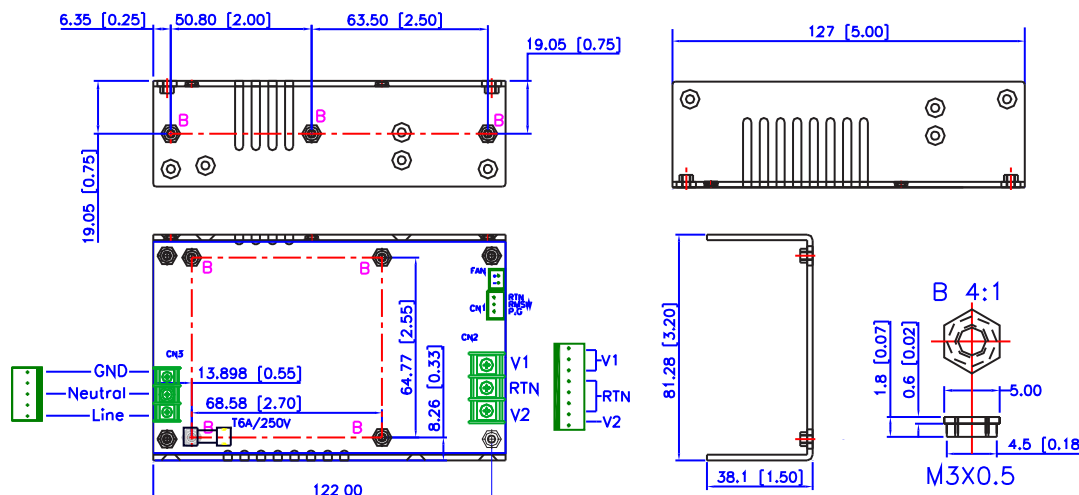
| | |
|------------------|---|
| Emissions | EN55022 "B", FCC Part 15 Subject J Class B |
| Safety Approvals | UL/cUL 60950-1 TUV EN60950-1 CB IEC60950-1 CE Mark (LVD) |

APS200/250Rx SERIES:

| Output Specifications: | | | | | | | | | |
|------------------------|--------|----------------|-------------------|-------|----------------|-------------------|---------------|------------|--|
| Model: | V1 | 23 cfm Airflow | Convection Cooled | V2 | 23 cfm Airflow | Convection Cooled | Maximum power | | |
| | | | | | | | 23 cfm | Convection | |
| APS200Rx-0312 | +3.3 V | 24.00 A | 12.00 A | +12 V | 12.00 A | 7.00 A | 200 Watts | 100 Watts | |
| APS200Rx-0324 | +3.3 V | 24.00 A | 12.00 A | +24 V | 6.00 A | 4.00 A | 200 Watts | 100 Watts | |
| APS200Rx-0512 | +5.0 V | 24.00 A | 12.00 A | +12 V | 12.00 A | 7.00 A | 200 Watts | 100 Watts | |
| APS200Rx-0524 | +5.0 V | 24.00 A | 12.00 A | +24 V | 6.00 A | 4.00 A | 200 Watts | 100 Watts | |
| APS200Rx-0548 | +5.0 V | 24.00 A | 12.00 A | +48 V | 3.00 A | 2.00 A | 200 Watts | 100 Watts | |
| APS250Rx-1224 | +12 V | 12.00 A | 7.00 A | +24 V | 6.00 A | 4.00 A | 250 Watts | 100 Watts | |

- Replace "x" with U to designate U-Frame Package or "F" for Top-Mount Fan Cover
- Input Connector (CN3): Mating Molex Part No. 09-91-0500 or equivalent (5 pin, 3 used) PCB is Labeled: L = Line; N = Neutral; G = Chassis Ground Mating Pins; Molex Series 2478, 2578, 8818 or Howder M3. 3 pin Terminal block 6.35MM Center (HD-601-3P).
- Output Connector (CN2): Mating Molex Part No. 09-91-0800. Pins: Molex Series 2478, 2578, 8818, or Howder M3. 3 pin Terminal block 8.25MM Center (HD-816-3P).
- Power Good, Remote On/Off mating connectors (CN1): Mating JST Part No. XHP-3 or equivalent (CHYAO SHIUNN JS-2001-03). Mating Pins: JST SXH-002T-P0.6 FOR AWG 30 to 26.
- Fan Drive: Mating JST Part No. XHP-2 or equivalent (CHYAO SHIUNN JS-2001-02).
- Mounting Inserts: 7 Places M3. Maximum Penetration 3.8mm sees outline drawing for location.

U-FRAME PACKAGE:



TOP-MOUNT FAN PACKAGE:

