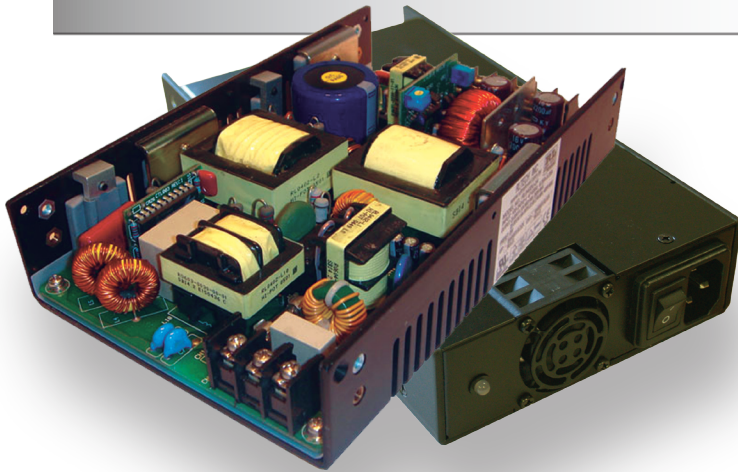


APS400MDx SERIES:



300~400 Watt Dual Output Models

- 8.00 x 5.00 x 1.60" U-Frame Package
- 9.00 x 5.00 x 1.60" End-Mount Fan Package

Features:

- Universal AC Input (90~264 VAC)
- Active PFC for EN61000-3-2 Class D Compliance
- Low Profile for 1U High Applications
- Remote Sense, Remote on/off & Power Good Functions
- 12V Aux Fan Output
- International Medical Safety Approvals
- 2 Year Warranty

INPUT:

| | |
|------------------|-------------------------------|
| Input Voltage | 90~264 VAC (Universal) |
| Input Frequency | 47-63Hz |
| Inrush Current | 35A @ 230 VAC Cold Start |
| Input Current | 6.35A @ 90 VAC (max) |
| Input Protection | Dual Fuse - 8A / 250VAC |
| Hold-Up Time | 20ms @ 80% Load |
| Leakage Current | <300µA @ 240 VAC Maximum |
| Power Factor | EN61000-3-2 Class D Compliant |

GENERAL:

| | |
|-----------------------|--|
| Efficiency | 75% minimum (230 VAC / Full Load) |
| Operating Temperature | 0-70°C, derate linearly to 50% Load at 70°C |
| Storage Temperature | -20°C to +85°C |
| Over-Temp Protection | >85°C Shutdown (Ambient) |
| Cooling | 23 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 | ±5% |
| Minimum Load | 10% to maintain Regulation & Ripple (Both outputs) |
| Regulation | ±5% max |
| Ripple & Noise | ±1% typ. pk-pk @ 20MHz |
| Overload Protection | 110-140% of max power (Hiccup Mode) |
| Over Voltage | Latching before 130% of nominal |
| Short Circuit Protection | Trip without damage & auto-recovery |
| Transient Response | recovers <2500µs following a 50% load change |
| Overshoot | Turn-on & off overshoot < 5% over nominal voltage |
| Turn-On Delay | 1 Second maximum at 120VAC |

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 | EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms |
| Voltage Interruptions | EN61000-4-11, 95% reduction, 5s |
| Fluctuations & Flicker | EN61000-3-3 |

STATUS & CONTROL:

| | |
|--------------------|--|
| Remote Sense | Compensates for <250mV Drop |
| Remote on/off | Low Signal Inhibits Output |
| Power Good | Low signal >1ms before loss of DC Regulation |
| Aux 12V Fan Output | 12V @ 400mA to drive fans |

APPROVALS:

| | |
|------------------|--|
| Emissions | EN55011 "B", FCC Part 15 Subject J Class B |
| Safety Approvals | UL/cUL 60601-1 CSA22.2 No. 60601-1-M90 TUV EN60601-1 CB IEC60601-1 CE Mark (LVD) |

APS400MDx SERIES:

Output Specifications:

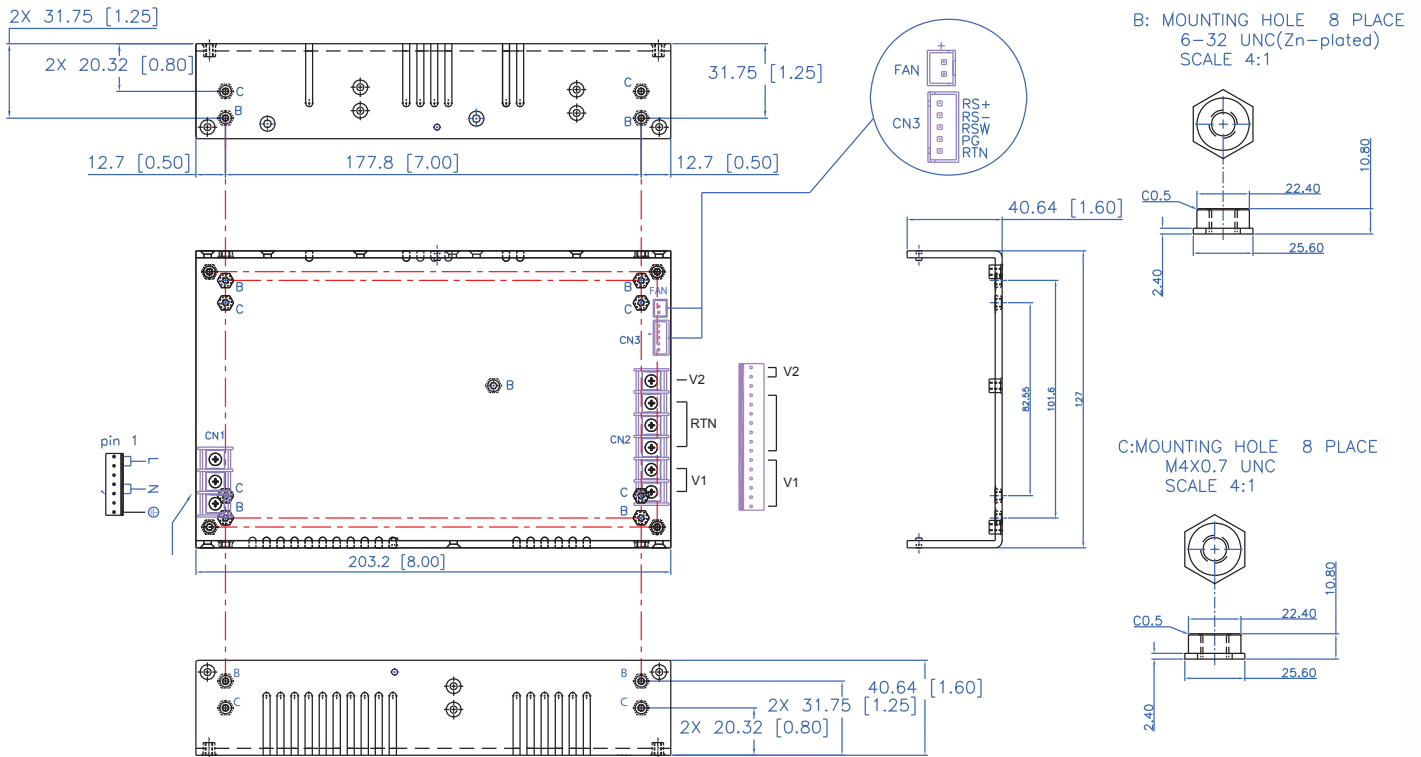
| Model: | 23 cfm | | | 23 cfm | | | Maximum Power | |
|----------------|--------|---------|-------------------|--------|---------|-------------------|---------------|------------|
| | V1 out | Airflow | Convection Cooled | V2 Out | Airflow | Convection Cooled | 23 cfm | Convection |
| APS400MDx-0312 | +3.3 V | 40.00 A | 30.00 A | +12 V | 25.00 A | 16.70 A | 300 Watts | 200 Watts |
| APS400MDx-0324 | +3.3 V | 40.00 A | 30.00 A | +24 V | 12.50 A | 8.34 A | 300 Watts | 200 Watts |
| APS400MDx-0512 | +5.0 V | 40.00 A | 30.00 A | +12 V | 25.00 A | 16.70 A | 300 Watts | 200 Watts |
| APS400MDx-0524 | +5.0 V | 40.00 A | 30.00 A | +24 V | 12.50 A | 8.34 A | 300 Watts | 200 Watts |
| APS400MDx-1224 | +12 V | 25.00 A | 16.70 A | +24 V | 12.50 A | 8.34 A | 400 Watts | 250 Watts |

• Replace “x” with the options below to designate preferred mechanical package:

U = U-Frame Package E = Enclosed Type + Add Suffix to designate Input Connector: “A” = Terminal Block | “B” = IEC-320 with Switch

- Add the suffix “E” to designate Top Cover for U-Frame Models
- Default Connections are Terminal Block (no suffix required):
 - Add the Suffix “C” to designate Molex Output Connector for Enclosed Models
 - Add the Suffix “T” to designate Terminal Block Input / Molex Output Connector for U-Frame Models
 - Add the Suffix “H” to designate Molex Input & Output Connectors for U-Frame Models
- Output Connector (CN2): Mating Molex 16 pins (09-91-1600), or Howder (HD-121-6P) M3.5, 8 pins terminal block, 9.5MM Center.
- Logic signal connectors (CN3): Mating JST XHP-5 or equivalent (CHYAO SHIUNN JS-2001-05). Mating Pins: JST SXH-002T-P0.6 FOR AWG 30 to 26.
- Mounting Inserts: 6-32, M4 4 Places individually with maximum penetration 0.15” on bottom side and 0.25” on both side.

U-FRAME PACKAGE (OPTION “U”):



APS400MDx SERIES:

END-MOUNT FAN PACKAGE (OPTION "E"):

