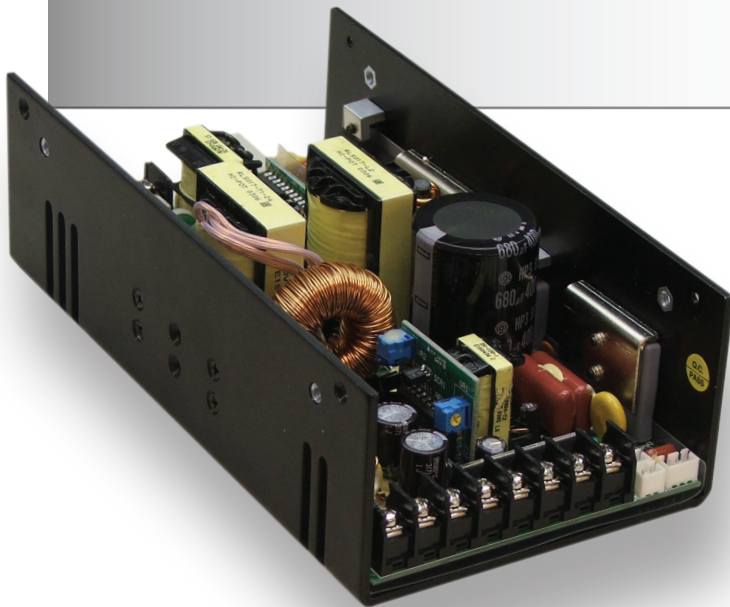


APS500Rx SERIES:



500 Watts / Single Output

- 8.00 x 4.33 x 2.50" U-Frame Package (Optional Cover)
- 8.00 x 4.33 x 3.40" Top-Mount Fan Package
- 9.17 x 4.25 x 2.50" End-Mount Fan Package

Features:

- Universal AC Input
- Active Power Factor Correction
- U-Frame / Top-Mount Fan / End-Mount Fan Packages
- Remote Sense Function
- Remote on/off Control
- Optional Current Share
- International Safety Approvals
- 2 Year Warranty

INPUT:

| | |
|------------------|-------------------------------|
| Input Voltage | 90-264 VAC |
| Input Frequency | 47-63Hz |
| Inrush Current | 70A Max @ 230 VAC Cold Start |
| Input Current | 8A @ 90 VAC Max. |
| Input Protection | Single T10A/250V Fuse |
| Hold-Up Time | 20ms @ 80% Load / Minimum |
| Leakage Current | <750 μ A @ 230 VAC |
| Power Factor | EN61000-3-2 Class D Compliant |

GENERAL:

| | |
|-----------------------|---|
| Efficiency | 80% typical |
| Operating Temperature | 0 to 50°C full load, derate 2.5% per °C to 70°C max. |
| Storage Temperature | -20°C to +85°C |
| Over-Temp Protection | >85°C Shutdown (Ambient) |
| Cooling | 25CFM Required for full load or Enclosed Fan for Self-Cooling |
| Temp Co-Efficient | 0.04% per °C |
| OverTemp Protection | >85°C |
| Operating Humidity | 5-90% RH, Non-Condensing |
| Vibration | 5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis |
| MTBF | >150k Hrs (according to MIL-HBK-217F) at 30°C |

OUTPUT:

| | |
|---------------------|---|
| Minimum Load | n/a |
| Line Regulation | \pm 0.1% typ. |
| Load Regulation | \pm 1% max |
| Ripple & Noise | \pm 1% typ. pk-pk @ 20MHz |
| Overload Protection | 110-140% of max power |
| Over Voltage | Latching before 130% of nominal |
| Adjustment Range | \pm 5% minimum (see factory set point range) |
| Transient Response | recovers <2.5ms following a 50% load change |
| Overshoot | Turn-on & off overshoot < 5% over nominal voltage |

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 Sense | Compensates <0.25V / not available w/ Current Share |
| Remote on/off Control | Low signal to inhibit output |
| Power Good | TTL high 100- 500mS after regulation. It goes low at least 1mS before loss of regulation |
| Current Monitor | 0.5 ~ 3VDC represents 0% to 100% output current |
| Current Share | 10% accuracy and up to 4units |
| LED Indicator | Green = Power On / Amber= Fault |
| Fan Output | 12V @ 400mA |

APPROVALS:

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

APS500Rx SERIES:

Output Specifications:

| Model: | Vout | Max Output Current | Factory Setpoint Range | Max Output Power |
|-------------|------|--------------------|------------------------|------------------|
| APS500Rx-03 | 3.3V | 80.0A | 2 ~ 3.3V | 264 Watts |
| APS500Rx-05 | 5.0V | 80.0A | 5 ~ 6V | 400 Watts |
| APS500Rx-12 | 12V | 41.67A | 12 ~ 14V | 500 Watts |
| APS500Rx-15 | 15V | 33.33A | 15 ~ 19V | 500 Watts |
| APS500Rx-24 | 24V | 20.83A | 20 ~ 26V | 500 Watts |
| APS500Rx-36 | 36V | 13.89A | 27 ~ 36V | 500 Watts |
| APS500Rx-40 | 40V | 12.50A | 37 ~ 47V | 500 Watts |
| APS500Rx-48 | 48V | 10.42A | 48 ~ 56V | 500 Watts |

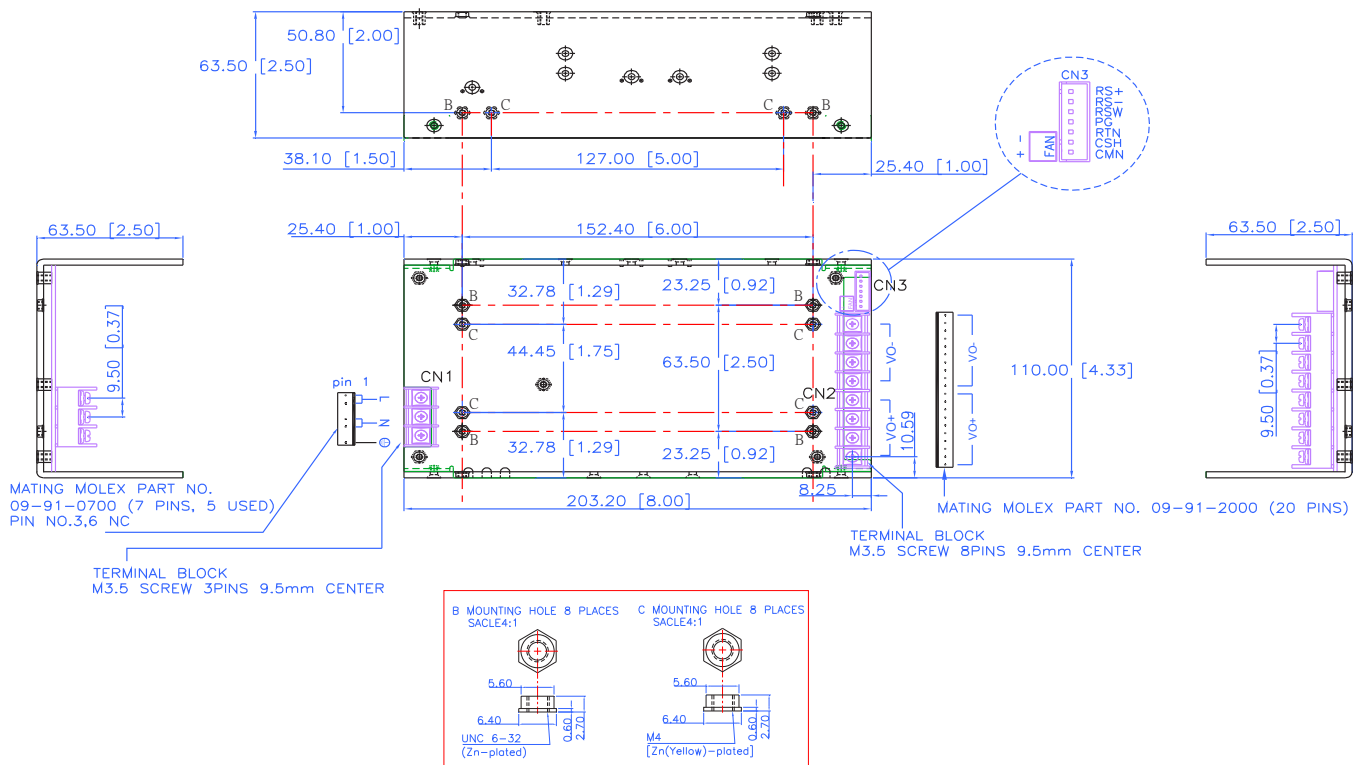
- Replace "x" in Model Number to Designate Desired Mechanical Package:

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

- Consult APS for any Output Voltage within the specified Factory Setpoint Ranges above (All safety approvals are maintained)
- 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
- Add the Suffix "I" to designate current share option (remote sense function disabled with this option).

AC Input Connector (CN1): E Type: IEC320 or equivalent Snap-in mounting type or DINKLE Terminal block Part No. DT-35-A02W-03 (3 pin). U & F Type: Mating Molex Part No. 09-91-0700 or equivalent (7 pin, 5 used) or Howder Terminal block Part No. HD-121-3P. Output Connector (CN2): Mating Molex Part No. 09-91-2000 (20 pin) or Howder Terminal block Part No. HD-121-8P (8 pin). Output Pin Assignment: Optional two type - Molex: VO+ (Pins 1-10), VO- (Pins 11-20); Howder: VO+ (Pins 1-4), VO- (Pins 5-8). Logic signal connectors (CN3): Mating JST XHP-7 or equivalent (CHYAO SHIUNN JS-2001-07). Fan Drive: 12VDC/400mA Mating JST XHP-2 or equivalent (CHYAO SHIUNN JS-2001-02). Mounting Inserts: 6-32, M4 4 Places individually with maximum penetration 0.2 inch on bottom side and 0.25 inch on both side.

MECHANICAL DRAWING: TYPE "U" (U-FRAME):



APS500Rx SERIES:

MECHANICAL DRAWING: TYPE "E" (END-MOUNT FAN)

