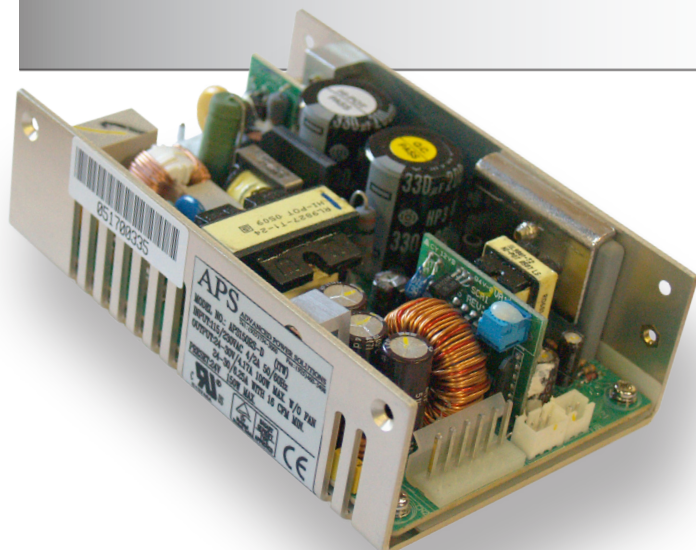


## APS200/250Rx SERIES:



### 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 $\mu$ 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:

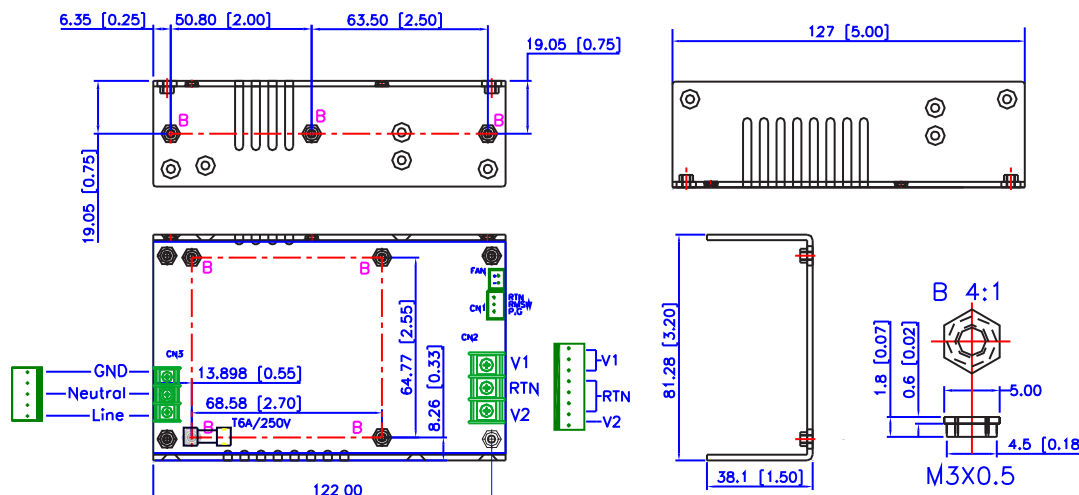
Emissions	EN55022 "B", FCC Part 15 Subject J Class B
Safety Approvals	UL/cUL 60950-1 TUV EN60950-1 CB IEC60950-1 CE Mark (LVD)

## 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:

