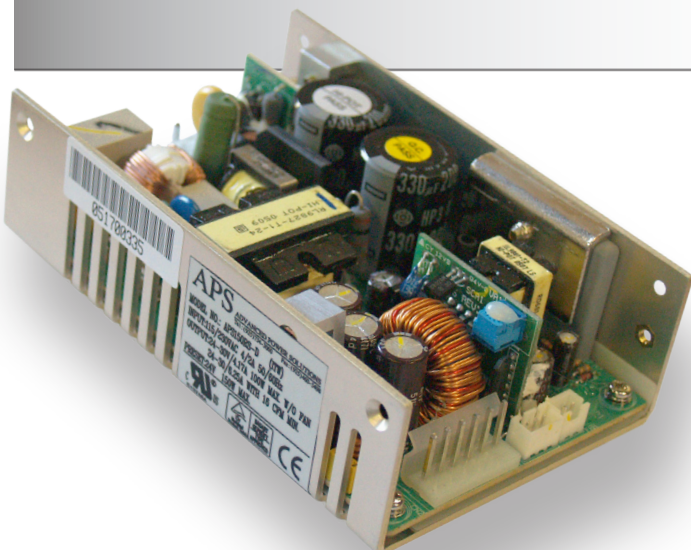


APS303RDx SERIES:



240 Watts 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
- 5.00 x 3.20 x 1.66" Perforated Top-Cover Package
- 6.50 x 3.20 x 1.60" End-Mount Fan Package

Features:

- Universal AC Input (90-264 VAC)
- Power Factor Correction for EN61000-3-2 Class D Compliance
- Ruggedized Aluminum Enclosure
- International Safety Approvals
- 2 Year Warranty

INPUT:

Input Voltage	90~264 VAC (Universal)
Input Frequency	47-63Hz
Inrush Current	35A / 70A Max @ 115/ 230 VAC Cold Start
Input Current	5A Max @ 90 VAC (Full Load)
Input Protection	Single Fuse - F5A/350V
Hold-Up Time	20ms @ 80% Load / Minimum
Leakage Current	<1500 μ A @ 240 VAC Maximum
Harmonics	EN61000-3-2 Class D Compliant

GENERAL:

Efficiency	80% Minimum (Full Load & 230VAC Operation)
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	25 cfm airflow required for full load
Operating Humidity	5-90% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s ² on X,Y and Z Axis
MTBF	>100k Hrs (according to MIL-HBK-217F) at 30°C

OUTPUT:

Adjustment Range	\pm 5%
Minimum Load	1% to maintain Regulation
Regulation	\pm 5% max
Ripple & Noise	\pm 1% typ. pk-pk @ 20MHz
Overload Protection	110-140% of max power (Foldback)
Over Voltage	Latching, >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

EMC:

Electrostatic Discharge	EN61000-4-2, \pm 4KV Contact / \pm 8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 80-1000MHz, 13V/M, 80% AM
EFT / Bursts	EN61000-4-4, \pm 1KV
Surges	EN61000-4-5, \pm 2KV Line-Earth, \pm 1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-80MHz, 3V _{RMS} , 80% AM
Voltage Interruptions	EN61000-4-11, 95% reduction, 5s
Fluctuations & Flicker	EN61000-3-3

STATUS & CONTROL:

Remote on/off	Low signal to inhibit output
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
Fan Fail	open collector, high = fan failure detected

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
------------------	---

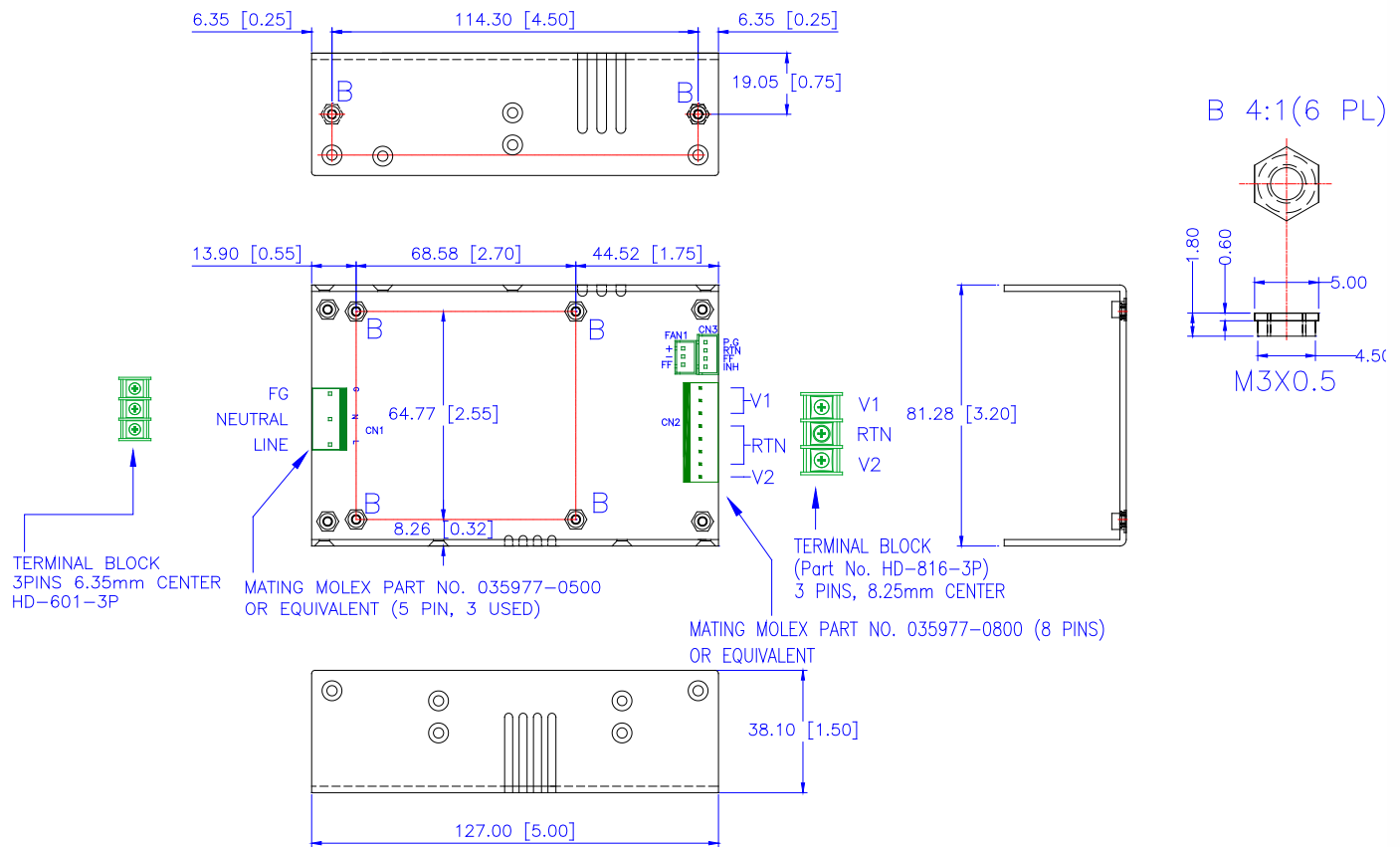
APS303RDx SERIES:

Output Specifications:

Model:	V1 Out	Max Output Current		V2 Out	Max Output Current		Maxim Power (Continuous)	
		Convection	25 cfm		Convection	25 cfm	Convection	25 cfm
APS303RDx-0512	5.0 V	12 A	24A	12V	6.67A	13.33A	120 Watts	240 Watts
APS303RDx-0524	5.0V	12A	24A	24V	3.33A	6.67A	120 Watts	240 Watts
APS303RDx-0548	5.0V	12A	24A	48V	1.67A	3.33A	120 Watts	240 Watts
APS303RDx-1224	12V	6.67A	13.33A	24V	3.33A	6.67A	120 Watts	240 Watts

- To designate preferred mechanical package, Replace "x" with
 - U = U-Frame Package
 - C = Perforated Top Cover
 - F = Top-Mount Fan
 - E = End-Mount Fan (+ Add Suffix to designate Input Connector: "A" = Terminal Block | "B" = IEC-320)
- Consult APS for custom Output Voltage Setpoint
- Standard Input / Output Connections are Terminal Blocks. Add Suffix "M" to designate Molex Connections:
 - Input Connector(CN1): Mating Molex Part No. 035977-0500 or equivalent (5 pin, 3 used) PCB is Labeled: L = Line; N = Neutral; G = Chassis Ground 3 pin Terminal block 6.35MM Center (HD-602-3P).
 - Output Connector (CN2): Mating Molex Part No. 035977-0800. Mating Pins: Molex Engineering Series 2478, 2578, 8818. or Howder HD-816-3P
- Power Good, Remote On/Off & Fan Failmating connectors (CN1): Mating JST Part No. XHP-3 or equivalent (CHYAO SHIUNN JS-2001-04). 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-2001-03).
- Mounting Inserts: 6 Places M3. Maximum Penetration 3.8mm. Designated as "B" on mechanical drawing below.

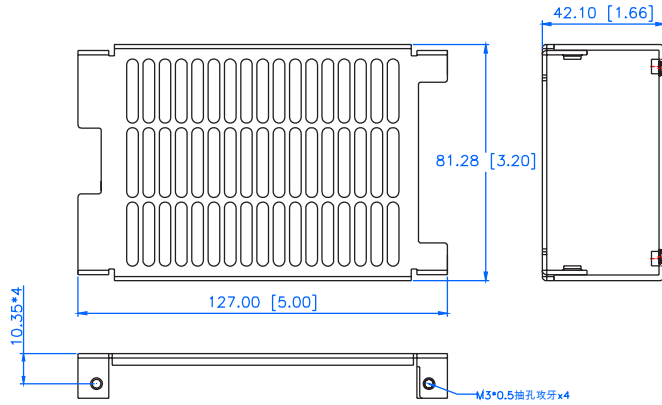
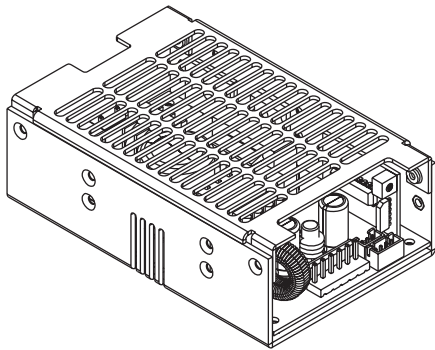
U-FRAME PACKAGE:



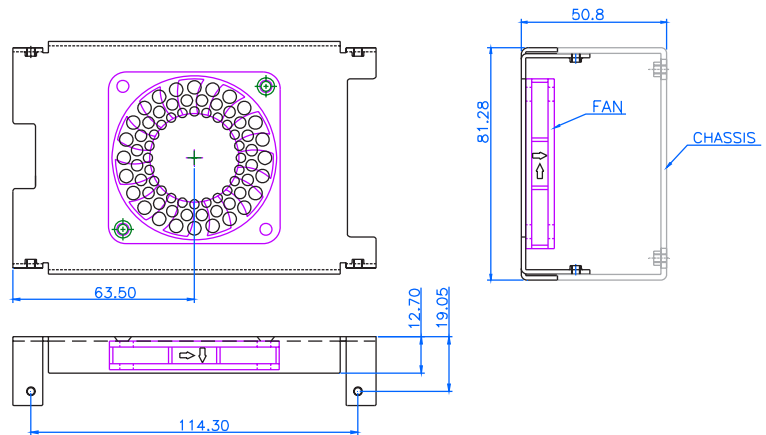
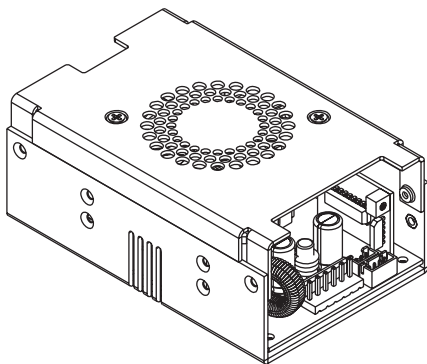
APS303RDx SERIES:

Mechanical Specifications:

TOP-COVER PACKAGE:



TOP-MOUNT FAN PACKAGE:



APS303RDx SERIES:

Mechanical Specifications:

END-MOUNT FAN PACKAGE:

