



200 Watts Dual Output Models

- 6.80 x 3.80 x 1.50" U-Frame Package

Features:

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

INPUT:

Input Voltage	90~264 VAC (Universal)
Input Frequency	47-63Hz
Inrush Current	35A @ 110 VAC Cold Start
Input Current	4A @ 100 VAC (full load)
Input Protection	Single Fuse - 5A / 250VAC
Hold-Up Time	20ms @ 80% Load
Leakage Current	<1500 μ A @ 240 VAC Maximum
Power Factor	EN61000-3-2 Class D Compliant

GENERAL:

Efficiency	75% minimum (230VAC 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	17 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% 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 <500 μ s 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, \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 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

APPROVALS:

Emissions	EN55022 "B", FCC Part 15 Subject J Class B
Safety Approvals	UL/cUL 60950-1 CSA22.2 No. 60950-1 TUV EN60950-1 CB IEC60950-1 CE Mark (LVD)

Output Specifications:

Model:	Convection Cooled Ratings			with 17cfm Airflow Ratings		
	V1 Output	V2 Output	Power	V1 Output	V2 Output	Power
APS200RD-0512	+5V @ 15A	+12V @ 10A	150 Watts	+5V @ 25A	+12V @ 12.5A	200 Watts
APS200RD-0524	+5V @ 15A	+24V @ 5A	150 Watts	+5V @ 25A	+24v @ 6.25a	200 Watts
APS200RD-1224	+12V @ 12.5A	+24V @ 6.25A	150 Watts	+12V @ 16.6A	+24V @ 8.3A	200 Watts

- Consult APS for any Output Voltage within the specified Factory Setpoint Ranges above (All safety approvals are maintained)
- Standard Connections are Molex. Add the Suffix "T" to designate Terminal Block connectors.
- AC Input Connector (CN1): 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 Engineering Series 2478, 2578, 8818 or Howder Terminal block Part No. FTB-702-3P (3 pin).
- Output Connector (CN2): Mating Molex Part No. 09-91-1200 (12 pin) or Howder Terminal block Part No. HD-301-4P (4 pin).
- Logic signal connectors (CN3): Mating JST XHP-4 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-2001-02).
- Mounting Inserts: 8 Places M4. Maximum Penetration 4mm see outline drawing for location.

OUTLINE DRAWING:

