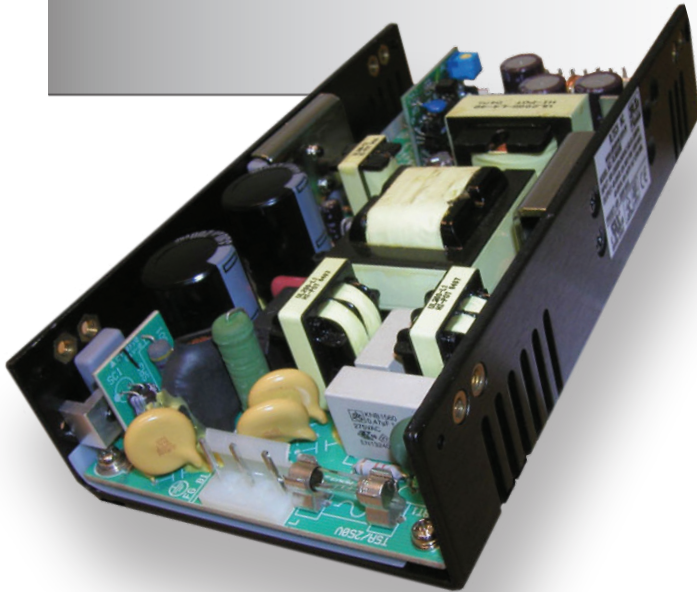


APS200RS SERIES:



200 Watts Single 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
- Peak Loads up to 600 Watts for 500µs
- Low Profile for 1U High Applications
- Remote on/off, Remote Sense & 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 µA @ 240 VAC Maximum |
| Power Factor | EN61000-3-2 Class D Compliant |

GENERAL:

| | |
|-----------------------|------------------------------------------------------|
| Efficiency | 70~83% typical |
| 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 | ±5% |
| Minimum Load | 1% to maintain Regulation |
| Regulation | ±1% max |
| Ripple & Noise | ±1% or 50mV typ. pk-pk @ 20MHz (whichever is greater) |
| 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 <500µs 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 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) |

APS200RS SERIES:

| Output Specifications: | | Convection Ratings | | With 17 cfm Airflow | | Factory Setpoint Range |
|------------------------|---------|--------------------|------------|---------------------|-----------|------------------------|
| Model: | Vout | Current | Power | Current | Power | |
| APS200RS-3 | 3.3 VDC | 22A | 72.6 Watts | 30A | 99 Watts | 3 ~ 4 VDC |
| APS200RS-5 | 5.0 VDC | 22A | 110 Watts | 40A | 200 Watts | 5 ~ 6 VDC |
| APS200RS-12 | 12 VDC | 12.5A | 150 Watts | 16.67A | 200 Watts | 12~18 VDC |
| APS200RS-15 | 15 VDC | 10A | 150 Watts | 13.33A | 200 Watts | 12~18 VDC |
| APS200RS-24 | 24 VDC | 6.25A | 150 Watts | 8.33A | 200 Watts | 24~30 VDC |
| APS200RS-48 | 48 VDC | 3.125A | 150 Watts | 4.17A | 200 Watts | 36~56 VDC |

- 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-6 or equivalent (CHYAO SHIUNN JS-2001-06). 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:

