

RSC350 Commercial/RSM350 Medical 350 Watt Multiple Output



SPECIFICATIONS:

Ac Input

90-132 and 180-264 Vac. 50/60 Hz single phase

Input Current

9/4.5 A

Hold-Up Time

20 ms minimum from loss of ac input at full load, nominal line (115 Vac).

Output Power

350 W with cover fan option (390 W) peak).

Overload Protection

Standard on all outputs, recovery automatic.

Overvoltage Protection

Standard on all outputs within ranges below:

| OUTPUT | OVP SETTING | V ADJ. RANGE |
|-------------|-------------|--------------|
| 5 V | 5.6-6.8 V | 4.6-5.5 V |
| 12 V & 15 V | 18-22 V | 11.5-15.3 V |
| 24 V & 28 V | 29-35 V | 22.0-30.0 V |

Efficiency

74% minimum at full load; nominal input voltage.

Turn-on Time

Less than 2 seconds.

Input Protection

Internal ac fuse provided. Designed to blow only if a catastrophic failure occurs in the unit-fuse does not blow on overload or short circuit.

Inrush Current

60 A minimum

Temperature Coefficient

0.03%/°C typical on all units

Environmental

Designed for 0 to 50°C operation at full rated output power; derate output current and total output power by 2.5% per °C above 50°C. See Environmental and Packaging Specifications on next page for additional information.

Power Fail

A TTL signal goes low upon failure. 6mS min. before output drops 5%.

Output Noise

0.5% rms. 1% pk-pk measured directly across output terminals.

Transient Response

Main output- 500 µsec typical response time for return to within 0.5% of final value for a 50% load step change. Di/Dt<0.2/µsec. Maximum voltage deviation is 3.5%

Remote Sense

Standard on main output; will compensate for 0.5 V of cabling losses.

FEATURES:

- Automatic line range selection
- Fully regulated and floating outputs
- Modular output configurations
- FCC/CISPR 11, 22
- Commercial Approved to UL1950, CSA 22.2 No. 234L6, IEC2950, EN60950
- Medical Approved to UL2601-1, IEC601 and CSA 601.1
- “Smart Load” feature eliminates minimum load requirements
- 2-year warranty
- CE marked to LVD

Voltage Adjustment

Built-in potentiometers adjust outputs minimum of ±5%.

Reverse Voltage Protection

All outputs protected against inadvertent application of reverse voltage up to 1 times rated current of the reversed output.

EMI/EMC Compliance

All models include built-in EMI filtering to meet the following emissions requirements:

EMI SPECIFICATION

Conducted Emissions

Static Discharge

RF Field Susceptibility

Fast Transients/Bursts

Surge Susceptibility

COMPLIANCE LEVEL

EN55022 Class B; FCC Class B

EN61000-4-2, 6 kV contact 8 kV air

EN61000-4-3, 3 V/meter

EN610004-4, 2 kV. 5 kHz

EN61000-4-5, 1kV diff., 2 kV com

Commercial Leakage Current

100 µA

Commercial Safety

Approval to UL1950 (no D3 deviations). CSA 22.2 No. 234L6. IEC950 and EN60950.

Medical Leakage Current

80 µA

Medical Safety

Approved to UL2601-1, IEC601, CSA601.1 for patient vicinity (non-invasive applications). Consult factory for approval status. Outputs are intended for Protectively Earthed Signal Output and Intermediate Circuits only.

Outputs are not acceptable for patient connection without additional isolation. The creepage distance between primary and ground is 4 mm minimum, 8 mm between primary and secondary circuits.

Vibration

Designed to meet requirements of MIL-STD 810E. Method 514.4 Category 1. This test consists of random vibration at 0.015g/Hz from 5 to 50 Hz declining linearly to 0.15 g2/Hz in each axis for one hour. Shock Designed to meet MIL-STD 810E. Method 516.4. Unpackaged units shall meet the bench handling requirements of procedures V1 for four drops per face.

RSC350 Commercial/**RSM350 Medical** 350 Watt Multiple Output

| Commercial Model | Medical Model | Main | Aux 1 | Aux 2 | Aux 3 |
|------------------|---------------|------------|-------------|------------|--------------|
| RSC350BBB | RSM350BBB | 5 V @ 40 A | 12 V @ 12 A | 12 V @ 4 A | 12 V @ 4 A |
| RSC350DBB | RSM350DBB | 5 V @ 40 A | 24 V @ 6 A | 12 V @ 4 A | 12 V @ 4 A |
| RSC350DAC | RSM350DAC | 5 V @ 40 A | 24 V @ 6 A | 5 V @ 4 A | 15 V @ 4 A |
| RSC350BAD | RSM350BAD | 5 V @ 40 A | 12 V @ 12 A | 5 V @ 4 A | 24 V @ 2.5 A |
| RSC350BAB | RSM350BAB | 5 V @ 40 A | 12 V @ 12 A | 5 V @ 4 A | 12 V @ 4 A |
| RSC352BAB | RSM352BAB | 24 V @ 8 A | 12 V @ 12 A | 5 V @ 4 A | 12 V @ 4A |
| RSC352BAD | RSM352BAD | 24 V @ 8 A | 12 V @ 12 A | 5 V @ 4 A | 24 V @ 2.5 A |
| RSC352BBB | RSM352BBB | 24 V @ 8 A | 12 V @ 12 A | 12 V @ 4 A | 12 V @ 4 A |
| RSC352DAC | RSM352DAC | 24 V @ 8 A | 24 V @ 6 A | 5 V @ 4 A | 15 V @ 4 A |
| RSC352DBB | RSM352DBB | 24 V @ 8 A | 24 V @ 6 A | 12 V @ 4 A | 12 V @ 4 A |

Output configurations:

"A" auxiliary output adjusts from 4.7 to 5.3Vdc. Available on AUX 2 only

"B" auxiliary output adjusts from 11.5 to 15.5Vdc.

"C" same as "B" but factory set at 15Vdc.

"D" auxiliary output adjusts from 23 to 29Vdc. Available on AUX 1 and 3

RSC35x/**RSM35x** MECHANICAL SPECIFICATIONS

INPUT: TB1 TERMINAL BLOCK, #6-32 x 0.375"

- PIN 1) AC LINE
- PIN 2) AC NEUTRAL
- PIN 3) CHASSIS GROUND

OUTPUT: BUSSBAR

- +V1 +5V @40A
- COMMON +5V RTN

OUTPUT: TB2 TERMINAL BLOCK, #6-32 x 0.375

- PIN 1) AUX#1 (RTN)
- PIN 2) AUX#1 (+)
- PIN 3) AUX#2 (RTN)
- PIN 4) AUX#2 (+)
- PIN 5) AUX#3 (RTN)
- PIN 6) AUX#3 (+)

OUTPUT VOLTAGE ADJUST.:

- R39 OUT 1 V. ADJ. (MAIN/AUX4)
- R25 OUT 2 V. ADJ. (AUX1)
- R6 OUT 3 V. ADJ. (AUX2)
- R6 OUT 4 V. ADJ. (AUX3)

SIGNALS: J1 AMP P/N 640456-5

- PIN 1) POWERGOOD
- PIN 2) POWER FAIL
- PIN 3) INHIBIT HI
- PIN 4) +SENSE
- PIN 5) -SENSE
- R31 POWER FAIL ADJ.

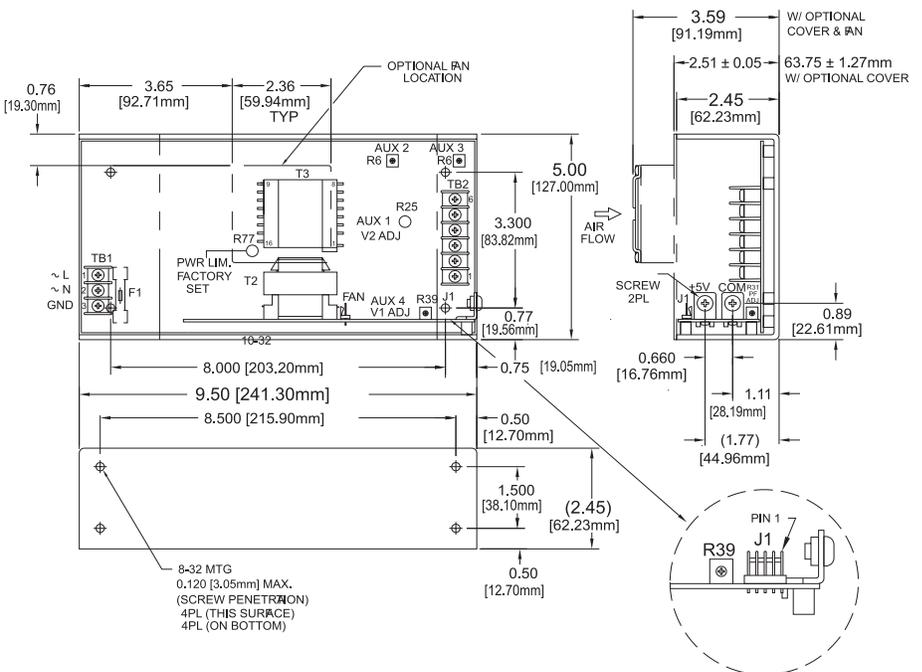
FAN CONN: AMP P/N 640456-2

- +12V 0-0.5 AMP

WEIGHT: 4.0 LBS. MAX. (1.82 kg MAX.)

TOLERANCES: X,XX=0.030 [0.76mm]

X,XXX=0.010 [0.25mm]



| Environmental Specification | Operating | Non-operating |
|-----------------------------|---|---|
| Temperature (A) | 0 to 50°C | -40 to +85°C |
| Humidity (A) | 0 to 95% RH | 0 to 95% RH |
| Shock (B) | 20 g _{pk} | 40 g _{pk} |
| Altitude | -500 to 10,000 ft | -500 to 40,000 ft |
| Vibration (C) | 1.5 g _{rms} , 0.003 g ² /Hz | 5 g _{rms} , 0.026 g ² /Hz |

- A. Units should be allowed to warm up/operate under non-condensing conditions before application of power. Derated output current and total output power by 2.5% per °C above 50°C.
- B. Random vibration—10 to 2000Hz, 6dB/octave roll-off from 350 to 2000Hz, 3 orthogonal axes. Tested for 10 min./axis operating and 1 hr./axis non-operating.
- C. Shock testing—half-sinusoidal, 10 ± 3 ms duration, ± direction, 3 orthogonal axes, total 6 shocks.



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