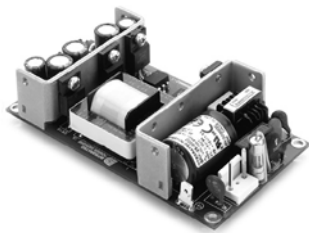


25 WATTS

SRP-25 SERIES AC-DC

FEATURES:

- RoHS Compliant
- Universal 85-264 VAC Input
- Advanced SMT Design
- Compact 2.25" x 4.00" x .96" Size
- 2 Year Warranty
- Fits 1U Applications
- One to Three Outputs
- EN 60950-1 ITE Certification
- EN 60601-1 Medical Certification
- Class B Emissions per EN 55011/22
- EMC to EN 61000-6-2 & EN 60601-1-2
- Optional Chassis and Cover








OPEN FRAME



CHASSIS/COVER

SAFETY SPECIFICATIONS

| | |
|---|--|
| General | Protection Class: I |
| | Overvoltage Category: II |
| | Pollution Degree: 2 |
|  | Underwriters Laboratories File E137708/E140259 |
|  | UL 60950-1 2 nd Edition, 2007 UL 60601-1 1 st Edition, 2006 |
|  | UL Recognition Mark for Canada File E137708/E140259 |
|  | TUV |
|  | Low Voltage Directive (2006/95/EC of December 2006) |
| | CB Reports/Certificates (including all National and Group Deviations) IEC 60950-1/A1:2009, Second Edition IEC 60601-1:1988 +A1:1991 +A2:1995 IEC 60601-1:2005 Third Edition |
| | CAN/CSA-C22.2 No. 60950-1-07, 2 nd Edition CAN/CSA-C22.2 No. 601-1-M90, 2005 |
| | EN 60950-1/A1:2010 EN 60601-1/A2:1995 |

MODEL LISTING

| MODEL NO. | OUTPUT 1 | OUTPUT 2 | OUTPUT 3 |
|-------------|-----------|-----------|-----------|
| SRP-25-3001 | +5V/3A | +12V/1.5A | -12V/0.5A |
| SRP-25-3002 | +5V/3A | +15V/1.5A | -15V/0.5A |
| SRP-25-3003 | 3.3V/2.5A | 6V/2A | 5V/1A |
| SRP-25-2001 | +5V/3A | +24V/1A | |
| SRP-25-2002 | +5V/3A | +12V/1.5A | |
| SRP-25-2003 | +5V/3A | -5V/2A | |
| SRP-25-2004 | +12V/1.5A | -12V/1.5A | |
| SRP-25-2005 | +15V/1.5A | -15V/1.5A | |
| SRP-25-1001 | 3.3V/6A | | |
| SRP-25-1002 | 5V/5A | | |
| SRP-25-1003 | 12V/2.08A | | |
| SRP-25-1004 | 15V/1.67A | | |
| SRP-25-1005 | 24V/1.04A | | |
| SRP-25-1006 | 48V/0.52A | | |

NOTES

Consult factory for alternate output configurations.
 Consult factory for positive, negative or floating output 2 or 3.
 Refer to Applications Information for complete output power ratings.
 All specifications are maximum at 25° C, 25W unless otherwise stated, may vary by model and are subject to change without notice.
 Specify optional chassis and cover when ordering.

OUTPUT SPECIFICATIONS

| | | |
|--|-------------------------------------|-------------------------------------|
| Total Output Power | 25W (20W, 1001) | |
| Output Voltage Centering | Output 1: | ± 0.25% (All outputs) |
| | Output 2: | ± 5.0% at 50% load) |
| | Output 3: | ± 2.0% |
| Output Voltage Adjust Range | Output 1: | 95 - 105% |
| Load Regulation | Output 1: | 0.5% (0-100% load change) |
| | Output 2: | 5.0% (10-100% load change) |
| | Output 2: (2003) | 6.0% (30-100% load change) |
| | Output 3: | 1.0% (0-100% load change) |
| Source Regulation | Outputs 1 – 3: | 0.5% |
| Cross Regulation | Output 2: | 5.0% (Output 1 load varied 50-100%) |
| | Output 3: | 2.0% |
| Output Noise | Outputs 1-3 | 1% |
| Turn on Overshoot | None | |
| Transient Response | Outputs 1 – 3 | |
| Voltage Deviation | 5.0% | |
| Recovery Time | 1 mS | |
| Load Change | 50% to 100% | |
| Output Overvoltage Protection (optional) | Output 1: | 110% to 150% |
| Output Overcurrent Protection | Output 3: | 110% Min. |
| Output Overpower Protection | Outputs 1 & 2: | 110% Min. |
| | Outputs cycle on/off, auto recovery | |
| Hold Up Time | 10 mS min., 25W Output, 120V Input | |
| Start Up Time | 1 Second | |

INPUT SPECIFICATIONS

| | |
|-----------------|-----------------------------|
| Source Voltage | 85 – 264 Volts AC |
| Frequency Range | 47 – 63 Hz |
| Source Current | |
| True RMS | .8A at 85V Input |
| Peak Inrush | 30 A |
| Efficiency | .66 - .72 (Varies by model) |

ENVIRONMENTAL SPECIFICATIONS

| | |
|-----------------------------|----------------------------------|
| Ambient Operating | 0° C TO + 70° C |
| Temperature Range | Derating: See Power Rating Chart |
| Ambient Storage Temp. Range | - 40° C to + 85° C |
| Temperature Coefficient | Outputs 1 – 3: 0.02%/°C |

GENERAL SPECIFICATIONS

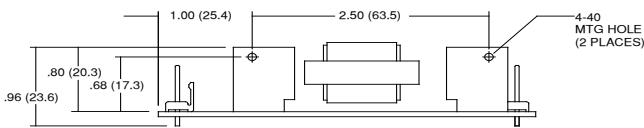
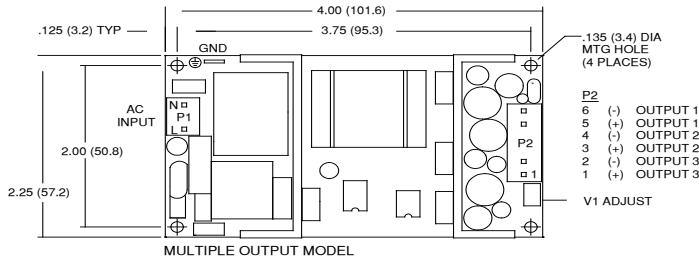
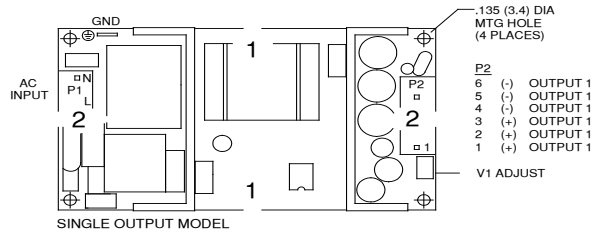
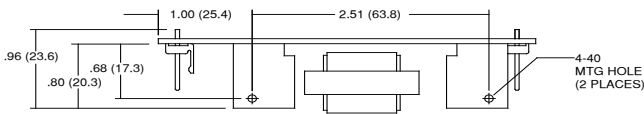
| | |
|----------------------------|---|
| Means of Protection | |
| Primary to Secondary | 2MOOP (Means of Operator Protection) |
| Primary to Ground | 1MOOP (Means of Operator Protection) |
| Secondary to Ground | Operational Insulation (Consult factory for 1MOOP or 1MOPP) |
| Dielectric Strength (g) | |
| Reinforced Insulation | 5656 VDC, Primary to Secondary, 1 Sec. |
| Basic Insulation | 2545 VDC, Primary to Ground, 1 Sec. |
| Operational Insulation | 707 VDC, Secondary to Ground, 1 Sec. |
| Leakage Current | |
| Earth Leakage | <300uA NC, <1000uA SFC |
| Touch Current | <100uA NC, <500uA SFC |
| Mean-Time Between Failures | 100,000 Hours min., MIL-HDBK-217F, 25° C, GB |
| Weight | 0.30 Lbs. Open Frame 0.62 Lbs. Chassis and Cover |

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS

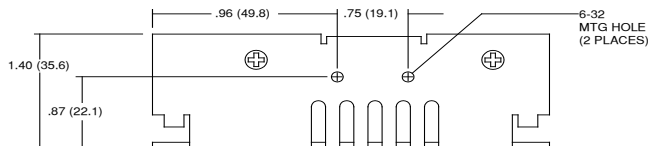
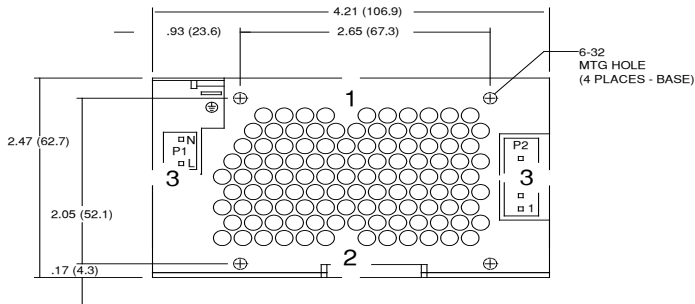
| | | |
|--------------------------------|---------------|---|
| Electrostatic Discharge | EN 61000-4-2 | ±8kV Contact Discharge ±8kV Air Discharge |
| Radiated Electromagnetic Field | EN 61000-4-3 | 80MHz-2.5GHz, 10/m, 80% AM |
| EFT/Bursts | EN 61000-4-4 | ±2 kV |
| Surges | EN 61000-4-5 | ±1kV Differential Mode ±2 kV Common Mode |
| Conducted Immunity | EN 61000-4-6 | .15 to 80MHz, 3V, 80% AM |
| Voltage Dips and Interruptions | EN 61000-4-11 | 30% Reduction, 500ms 95% Reduction, 10ms 60% Reduction, 1s (Criteria B) 95% Reductions, 5000ms |
| Radiated Emissions | EN 55011/22 | Class B |
| Conducted Emissions | EN 55011/22 | Class B |

SRP-25 SERIES MECHANICAL SPECIFICATIONS

OPEN FRAME



OPTIONAL CHASSIS/COVER

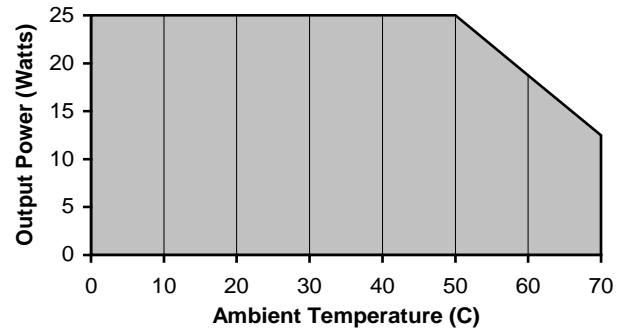


ALL DIMENSIONS IN INCHES (MM)

APPLICATIONS INFORMATION

- Each output can deliver its rated current but total output power must not exceed 25 watts.
- Semiconductor case temperatures must not exceed 110°C.
- Sufficient area must be provided around convection cooled power supplies to allow natural movement of air to develop.
- This product is intended for use as a professionally installed component within information technology and medical equipment.
- A minimum load of 10% is required on output one to ensure proper regulation of remaining outputs.
- This product includes only one fuse in the input circuit. In consideration of Clause 8.11.5 of IEC 60601-1:2005, a second fuse may be required in the end product.
- Peak to peak output ripple and noise is measured directly at the output terminals of the power supply, without the use of the probe ground lead or retractable tip, 20 MHz bandwidth. This product includes only one fuse in the input circuit. In consideration of Clause 57.6 of UL 60601-1, a second fuse may be required in the end product.
- This product was type tested and safely certified using the dielectric strength test voltages listed in Table 6 of IEC 60601-1:2005. In consideration of Clause 8.8.3, care must be taken to insure the voltage applied to a reinforced insulation does not overstress different types and levels of insulation. Primary and secondary to ground capacitors may need to be disconnected prior to performing a dielectric strength test on the power supply or the end product. It is highly recommended that the DC test voltages listed in DVB.1, Annex DVB of UL 60601-1 1st Edition are not exceeded during a production-line dielectric strength test of the assembled end product. Please consult factory for further information.
- This power supply has been safely approved and final tested using a DC dielectric strength test. Please consult factory before performing an AC dielectric strength test.
- Maximum screw penetration into bottom chassis mounting holes is .100 inches.
- Maximum screw penetration into side chassis mounting holes is .250 inches.
- To meet emissions specifications, all four mounting hole pads must be electrically connected to a common metal chassis. Chassis/cover option recommended.

MAXIMUM OUTPUT POWER VS. AMBIENT TEMPERATURE



CONNECTOR SPECIFICATIONS

| | | |
|----|-----------|--|
| P1 | AC Input | .156 friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal. |
| P2 | DC Output | .156 friction lock header mates with Molex 09-50-3061 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal. |
| G | Ground | .187 quick disconnect terminal. |

RECOMMENDED AIR FLOW DIRECTION

1 – Optimum 2 – Good 3 – Fair