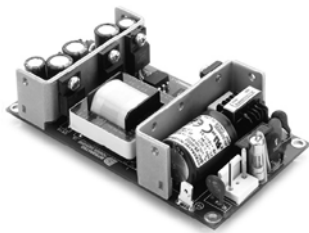


25 WATTS

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
	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
UL Recognition Mark for Canada File E137708/E140259	CAN/CSA-C22.2 No. 60950-1-07, 2 nd Edition CAN/CSA-C22.2 No. 601-1-M90, 2005
	EN 60950-1/A12:2011 EN 60601-1/A2:1995
	Low Voltage Directive (2006/95/EC of December 2006) RoHS Directive (Recast) (2011/65/EU of June 2011)

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

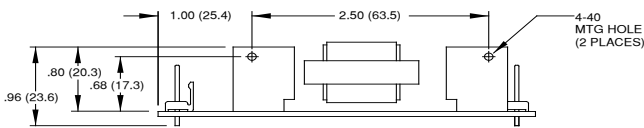
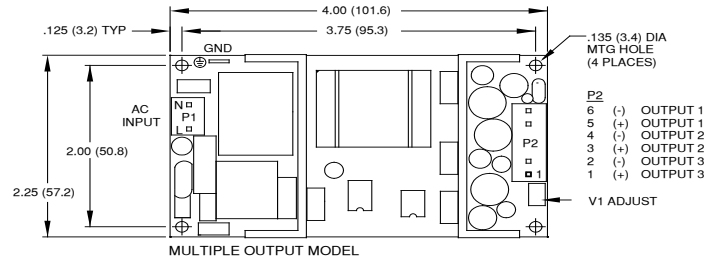
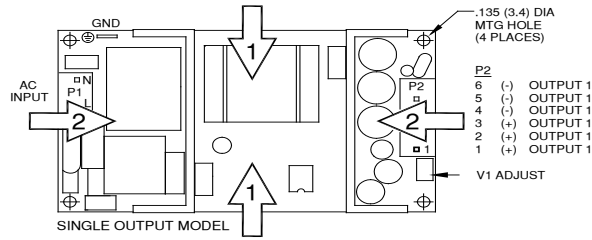
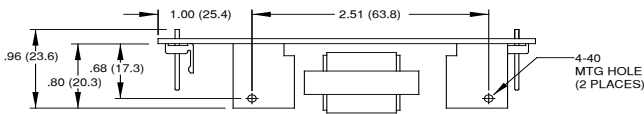
Means of Protection	
Primary to Secondary	2MOPP (Means of Patient Protection)
Primary to Ground	1MOPP (Means of Patient Protection) (1MOOP-Singles)
Secondary to Ground	Operational Insulation(Consult factory for 1MOOP or 1MOPP)
Dielectric Strength ^(g)	
Reinforced Insulation	5656 VDC, Primary to Secondary, 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

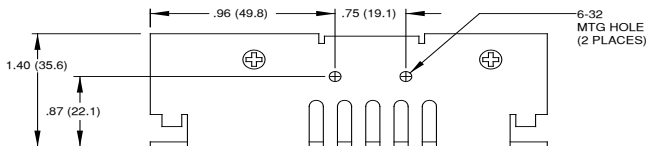
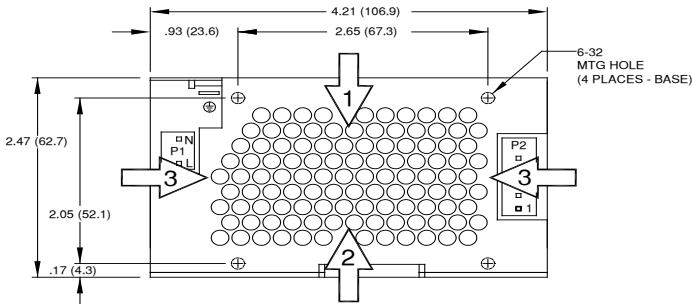
Electrostatic Discharge	EN 61000-4-2	±8kV Contact Discharge ±8kV Air Discharge
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.5GHz, 10/m, 80% AM
EFT/Bursts	EN 61000-4-4	±2 kV
Surges	EN 61000-4-5	±1kV Differential Mode ±2 kV Common Mode
Conducted Immunity	EN 61000-4-6	.15 to 80MHz, 3V, 80% AM
Voltage 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

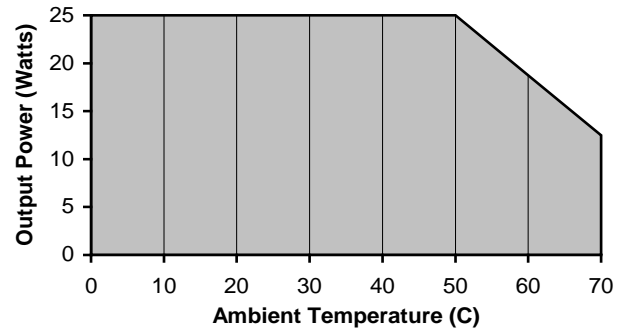


ALL DIMENSIONS IN INCHES (MM)

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