

25 WATTS

NO MINIMUM ORDER REQUIRED

SRP-25 SERIES

OUTPUT SPECIFICATIONS

Features

- RoHS Compliant
- Universal 85-264 VAC Input
- Advanced SMT Design
- Compact 2.25" X 4.0" X .96" Size
- Class B Emissions Per EN 55011/22
- EMC to EN 61000-6-2 & EN 60601-1-2
- 2 Year Warranty
- Fits 1U Application
- EN 60950 ITE Certification
- EN 60601-1 Medical Certification
- Optional Chassis & Cover
- One to Three Outputs



OPEN FRAME



CHASSIS/COVER






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

INPUT SPECIFICATIONS

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

ENVIRONMENTAL SPECIFICATIONS

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

SAFETY SPECIFICATIONS		GENERAL SPECIFICATIONS	
General	Protection Class:	I	Dielectric Strength
	Overvoltage Category:	II	
	Pollution Degree:	2	Reinforced Insulation 5656 VDC, Primary to Secondary, 1 Sec.
	Underwriters Laboratories File E137708	UL 60950-1 First Edition 60601-1 First Edition	Basic Insulation 2121 VDC, Primary to Ground, 1 Sec. Operational Insulation 707 VDC, Secondary to Ground, 1 Sec.
		CB Report per IEC 60950-1(2001) First Edition All National Deviations CB Report per IEC 60601-1(1988) Second Edition A1, A2	Leakage Current < 300µA Earth Leakage Current
	UL Recognition Mark for Canada File E137708	CAN/CSA-C22.2 No. 60950-1-03 with updates 1 and 2	Mean-Time Between Failures 100,000 Hours min., MIL-HDBK-217F, 25°C, GB
	TUV	EN 60950-1:2001 EN 60601-1/A2: 1995	Weight 0.62 Lbs. Chassis and Cover 0.30 Lbs. Open Frame
		Low Voltage Directive	

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS

Electrostatic Discharge	EN 61000-4-2	+/-8kV Contact Discharge +/-8kV/Air Discharge
Radiated Electro-magnetic Field	EN 61000-4-3	80MHz-2.5GHz, 10V/m, 80% AM
EFT/Bursts	EN 61000-4-4	+/-2kV
Surges	EN 61000-4-5	+/-1 kV Differential Mode +/-2 kV Common Mode
Conducted Immunity	EN 61000-4-6	.15to80MHz., 10V, 80% AM
Voltage Dips and Interruptions	EN 61000-4-11	30% Reduction, 500ms 95% Reduction, 10ms 60% Reduction, 1s (Criteria B) 95% Reduction, 500ms
Radiated Emissions	EN 55011/22	Class B
Conducted Emissions	EN 55011/22	Class B

Notes
 Consult factory for alternate output configuration.
 Consult factory for positive, negative or floating output 2 or 3.
 Refer to Application Information for complete output power ratings.
 All specifications are maximum at 25C unless otherwise stated and are subjected to change without notice.
 Specify optional chassis and cover when ordering.

MODEL LISTING			
Model	Output 1	Output 2	Output 3
SRP-25-3001	+5V/3A	+12V/1.5A	-12V/.5A
SRP-25-3002	+5V/3A	+15V/1.5A	-15V/.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

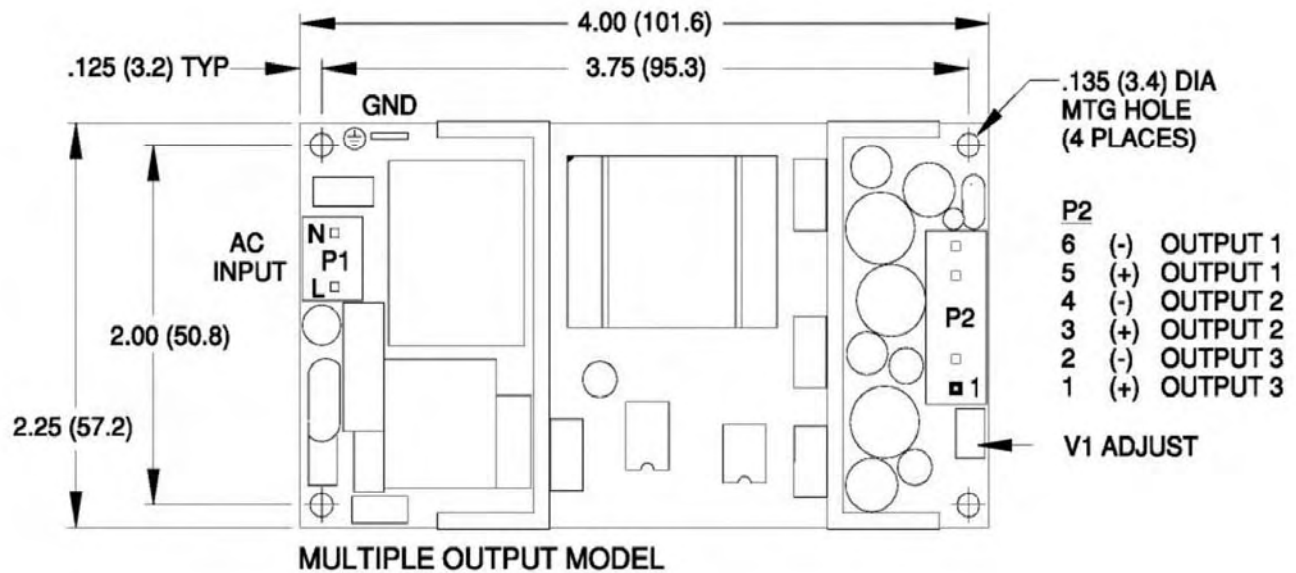
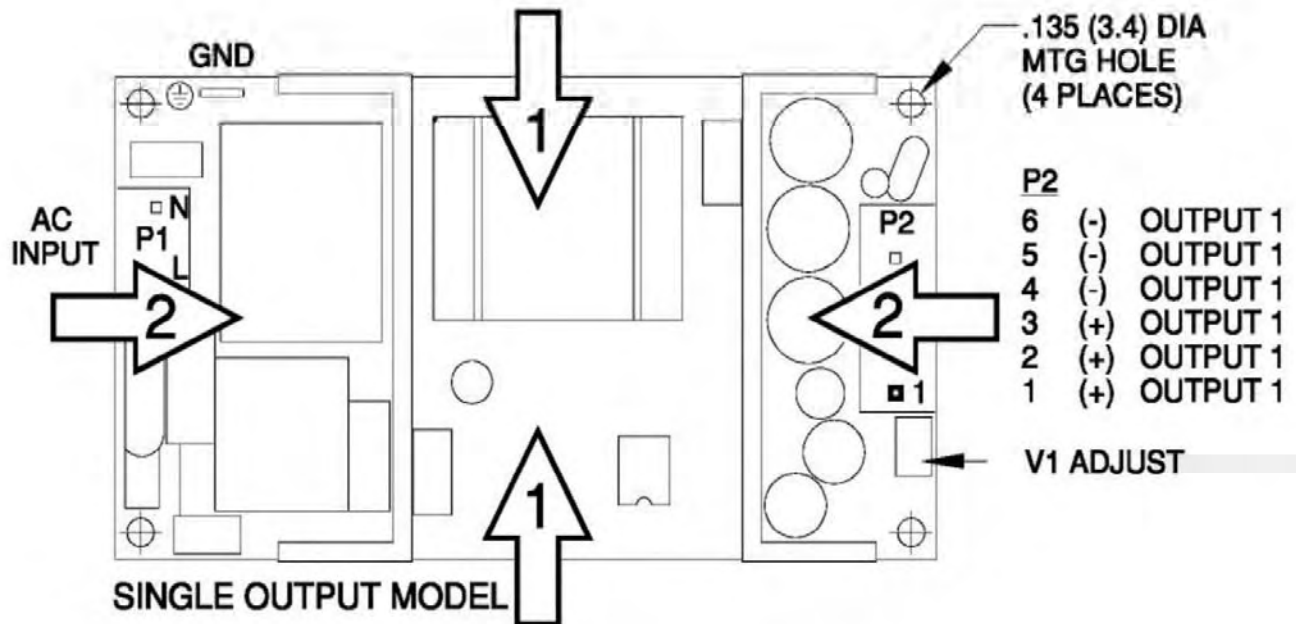
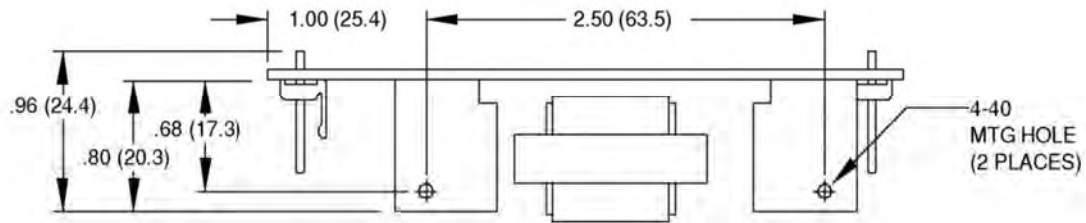
24V/1.04A

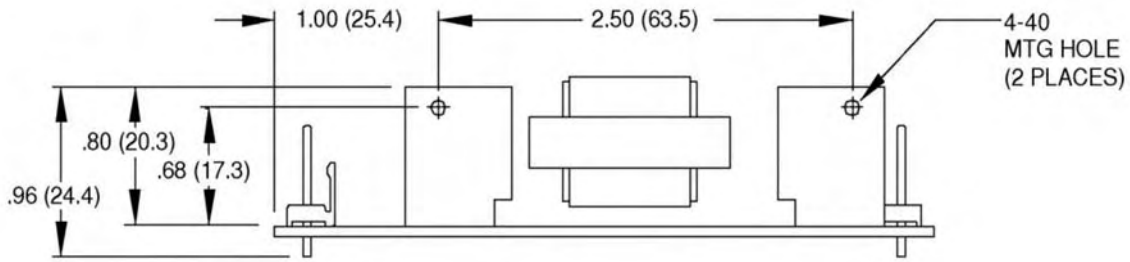
SRP-25-1006

48V/0.52A

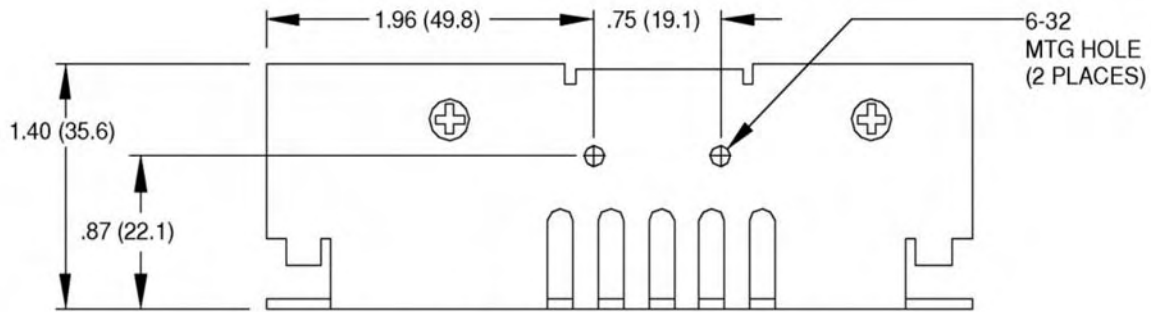
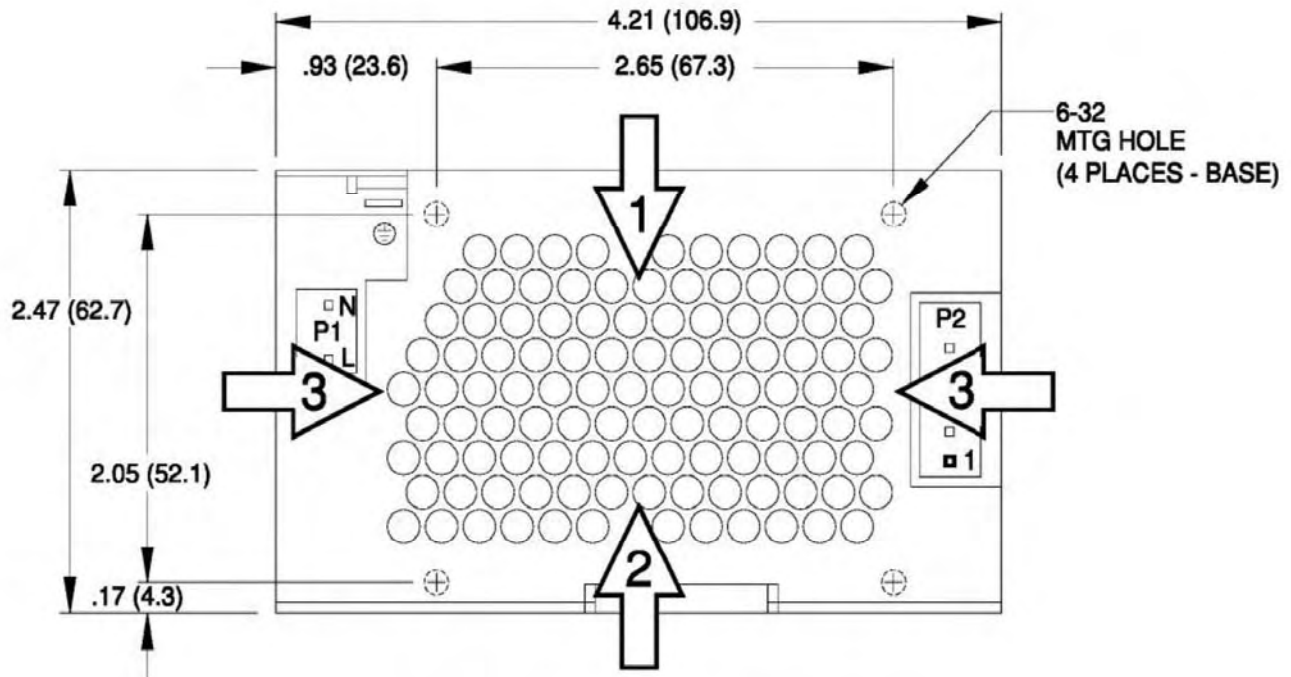
SRP-25 SERIES MECHANICAL SPECIFICATIONS

OPEN FRAME





OPTIONAL CHASSIS/COVER

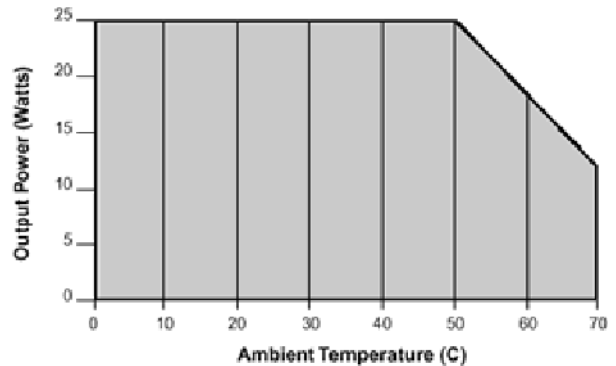


ALL DIMENSIONS IN INCHES (MM)

APPLICATIONS INFORMATION

1. Each output can deliver its rated current but total output power must not exceed 25 watts.
2. Semiconductor case temperature must not exceed 110 °C
3. Sufficient area must be provided around convection cooled power supplies to allow natural movement of air develop.
4. This product is intended for use as a professionally installed component within information technology and medical equipment.
5. A minimum load of 10% is required on output one to insure proper regulation of remaining outputs.
6. 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.
7. This product includes only one fuse in the input circuit. In consideration of clause 57.6 of UL 2601-1, a second fuse may be required in the end product.
8. This product was type tested and safety certificated using the the dielectric strength test voltages listed in Table V of UL 60601-1. In consideration of clause 20.4g, care must be taken to insure the voltage applied to a reinforced insulation does not over stress basic insulation. Secondary to ground capacitors may need to be removed prior to performing a dielectric strength type test on the end product. It is highly recommended that the DC test voltages listed in DVB.1. Annex DVB are not exceeded during a production-line dielectric strength test of the assembled end product. Please consult factory for further information.
9. This power supply has been safety approved and final tested using a DC dielectric strength test. Please consult factory before performing AC dielectric strength test.
10. Maximum screw penetration into bottom chassis mounting holes is .100 inches.
11. Maximum screw penetration into side chassis mounting holes is .250 inches.
12. To meet emissions specifications, all four mounting hole ground pads must be electrically connected. Use metal standoffs attached to a common metal chassis or base plate.

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