

40 WATTS

SRP-40A SERIES

OUTPUT SPECIFICATIONS

Features

- Universal 85-264 VAC Input
- High Efficiency
- Advanced SMT Design
- Compact 2.5" X 4.25" X 1.2" Size
- Class B Emissions Per EN 55022/11
- 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



OPEN FRAME



CHASSIS/COVER

Total Output Power	40 W (33W, 1001)
Output Voltage	Output 1: +/-0.25%
Centering(50% Load)	Output 2: +/-5.00%
	Output 3: +/-3.00%
	Output 4: +/-3.00%
	(All outputs at 50% rated load)
Source Regulation	Outputs 1-4: 0.5%
Load Regulation	(Local Sense)
	Output 1:0.5% (10-100% Load Change)
	Output 2: 5.0% (30-100% Load Change)
	(2003, 4002) 7.0% (30-100% Load Change)
	Output 3: 0.5% (10-100% Load Change)
	Output 4: 0.5% (10-100% Load Change)
Cross Regulation	Output 2: 5.0%
	Output 3: 0.5%
	Output 4: 0.5%
	(Output 1 load varied 50-100%)
Output Voltage Adjust Range	Output 1: 95% to 105%
Output Noise	Outputs 1-4: 1%
Turn On Overshoot	None
Transient Response	Outputs 1-4
Volt. Deviation	5%
Recovery Time	2 mS
Load Change	50% To 100%
Output Overvoltage Protection (Optional)	Output 1: 110% to 150%
Output Overpower Protection	Output 1&2 110% Min. Outputs cycle on/off, auto recovery
Output Overcurrent Protection	Output 3&4 110% Min.
Hold Up Time	10 mS Min, 40 W Output 120 V Input
Start Up Time	1 Second

INPUT SPECIFICATIONS

Source Voltage	85-264 Voltage AC
Frequency Range	47-63 Hz
Source Current	
True RMS	1A At 85V Input
Peak Inrush	30A
Efficiency	.66 - .72 (Varies by model)

ENVIRONMENTAL SPECIFICATIONS

Ambient Operating Temperature Range	0°C to +70°C Derating: See Power Rating Chart
Ambient Storage Temperature Range	-40°C to +85°C
Temperature Coefficient	Outputs 1-4: 0.02%/°C

SAFETY SPECIFICATIONS		GENERAL SPECIFICATIONS	
General	Protection Class:	I	Dielectric Strength
	Overtoltage Category:	II	Reinforced Insulation 5656 VDC, Primary to Secondary, 1 Sec.
	Pollution Degree:	2	Basic Insulation 2121 VDC, Primary to Ground, 1 Sec.
			Operational Insulation 707 VDC, Secondary to Ground, 1 Sec.
 Underwriters Laboratories File E137708	UL 60950, Third Edition UL 2601 - 1 Second Edition CB Report Per IEC 950 (1991) Second Edition A1, A2, A3, A4 All EN 60950 Deviations CB Report Per IEC 601-1-1988 First Edition, A1, A2		Leakage Current < 300 μ A Earth Leakage Current
			Mean Time Between Failures 100,000 Hours min., MIL-HDBK-217F, 25°C, GB
			Weight 0.85 Lbs. Chassis and Cover 0.49 Lbs. Open Frame

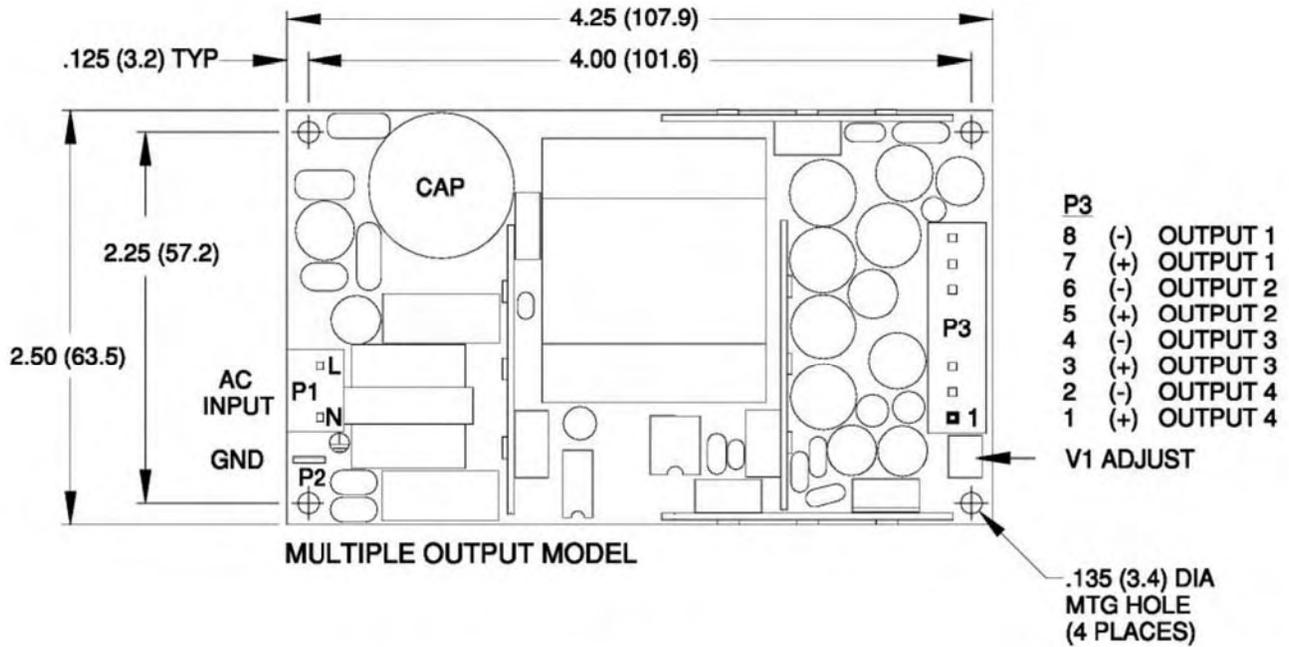
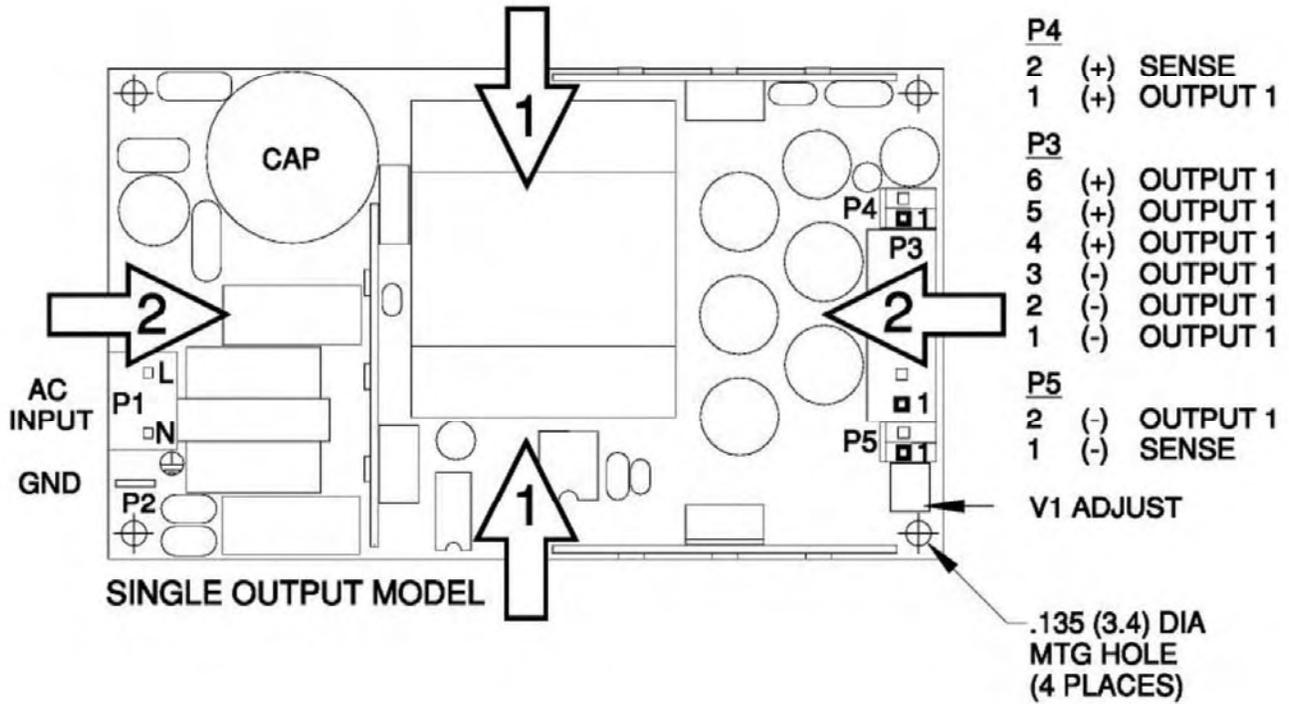
SAFETY SPECIFICATIONS		ELECTROMAGNETIC COMPATIBILITY	
 UL Recognition Mark for Canada File E137708	CAN/CSA-C22.2 No. 60950:00 CAN/CSA-C22.2 No. 601-1-M90	Electrostatic Discharge	EN 61000-4-2 +/-8kV Contact Discharge +/-8kVAir Discharge
 TUV	EN 60950/A11:1997 EN 60601-1/A2: 1995 Low Voltage Directive	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 .15-80MHz., 10V, 80% AM
		Voltage Dips and Interruptions	EN 61000-4-11 30% Reduction 95% Reduction 60% Reduction 95% Reduction
		Radiated Emissions	EN 55011/22 Class B
		Conducted Emissions	EN 55011/22 Class B

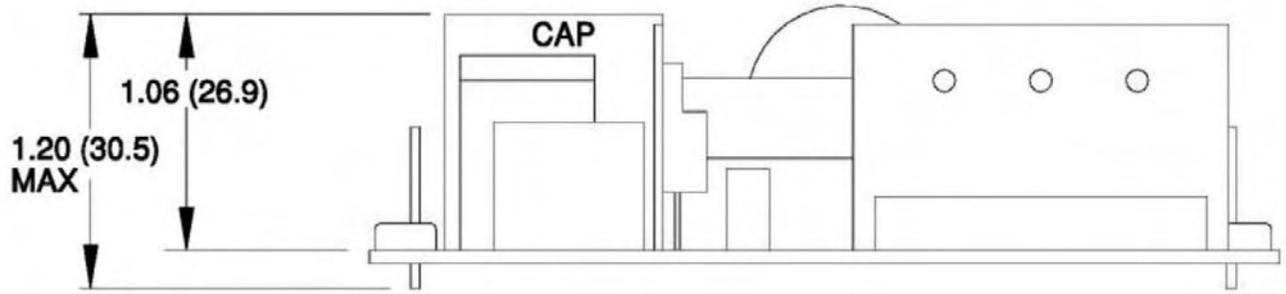
Notes

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.

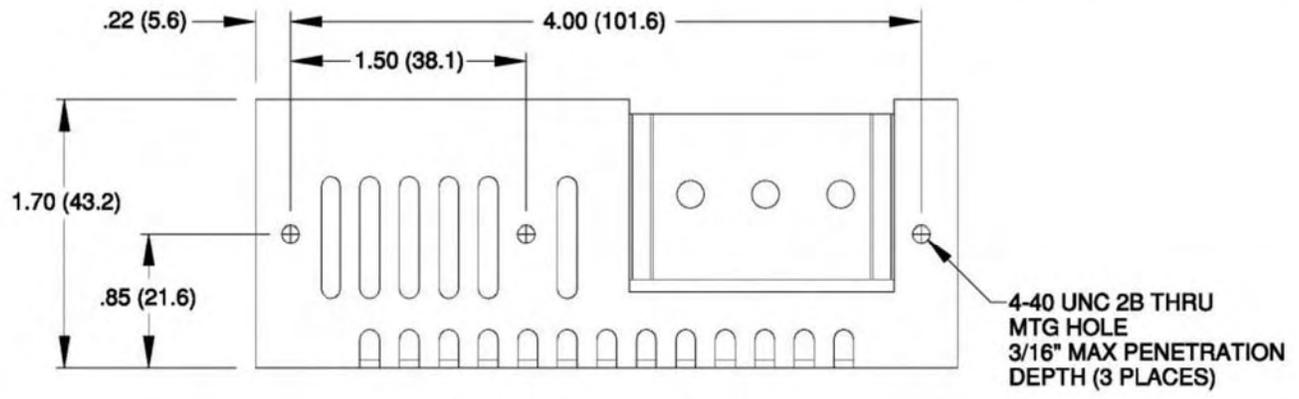
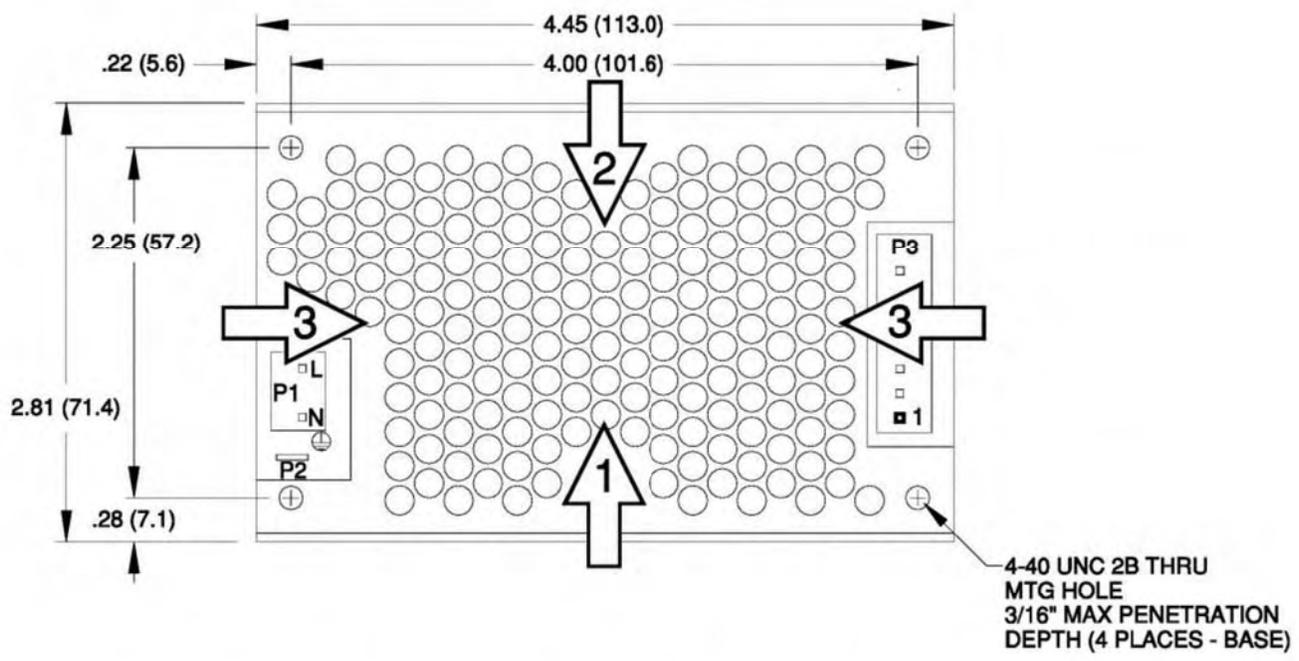
MODEL LISTING					
Model	Output 1	Output 2	Output 3	Output 4	Max Power
SRP-40A-4001	+3.3V/5A	+5V/3A	+12V/.7A	-12V/.7A	40W
SRP-40A-4002	+5V/5A	+3.3V/3A	+12V/.7A	-12V/.7A	40W
SRP-40A-4003	+5V/5A	-5V/3A	+12V/.7A	-12V/.7A	40W
SRP-40A-4004	+5V/5A	-5V/3A	+15V/.7A	-15V/.7A	40W
SRP-40A-4005	+5V/5A	+24V/1.5A	+12V/.7A	-12V/.7A	40W
SRP-40A-4006	+5V/5A	+24V/1.5A	+15V/.7A	-15V/.7A	40W
SRP-40A-3001	+5V/5A	+12V/2A	-12V/.7A		40W
SRP-40A-3002	+5V/5A	+15V/2A	-15V/.7A		40W
SRP-40A-2001	+5V/5A	+24V/1.5A			40W
SRP-40A-2002	+5V/5A	+12V/3A			40W
SRP-40A-2003	+5V/5A	-5V/4A			40W
SRP-40A-2004	+12V/3A	-12V/3A			40W
SRP-40A-2005	+15V/2.5A	-15V/2A			40W
SRP-40A-1001	3.3V/10A				33W
SRP-40A-1002	5V/8A				40W
SRP-40A-1003	12V/3.33A				40W
SRP-40A-1004	15V/2.67A				40W
SRP-40A-1005	24V/1.67A				40W
SRP-40A-1006	48V/0.83A				40W

OPEN FRAME





OPTIONAL CHASSIS/COVER



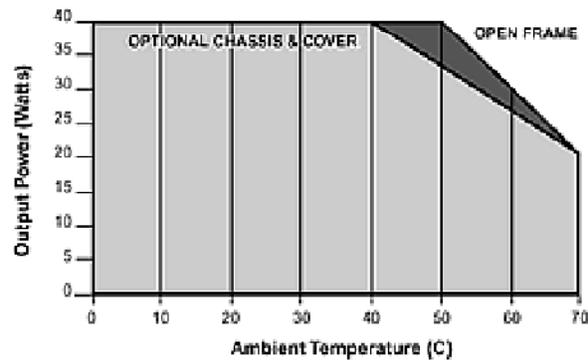
ALL DIMENSIONS IN INCHES (MM)

APPLICATIONS INFORMATION

- Each output can deliver its rated current but total output power must not exceed 40 watts(33W, 1001).
- Maximum ambient temperature is reduced to 40 C with optional chassis and cover.
- Semiconductor case temperature must not exceed 110 C
- Sufficient area must be provided around convection cooled power supplies to allow natural movement of air 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 insure proper regulation of remaining outputs.
- Remote sense terminals may be used to compensate for cable losses up to 250mV. The use of a twisted pair is recommended as well as a decoupling capacitor (0.1 0 10microF) and a capacitor of 100microF/amp connected across the load.
- 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 is use 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.
- 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.

- 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.

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.
P3	DC Output(Single)	.156 friction lock header mates with Molex 09-50-3061 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
P3	DC Output(Multiple)	.156 friction lock header mates with Molex 09-50-3081 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
P4,5	Sense	.100 friction lock header mates with Molex 22-01-2027 or equivalent crimp terminal housing with Molex 08-50-01114 or equivalent crimp terminal.
G	Ground	.187 quick disconnect terminal.

RECOMMENDED AIR FLOW DIRECTION

- Optimum
- Good
- Fair