

35 WATTS**SRP-30/35 SERIES****OUTPUT SPECIFICATIONS****Features**

- Universal 85-264 VAC Input
- High Efficiency
- Advanced SMT Design
- Compact 3.0" X 6.0" X 2.0" Size
- Class B Emissions Per EN 55022/11
- EMC to EN 61000-6-2 & EN 60601-1-2
- 2 Year Warranty
- UL Listed
- One to Four Outputs
- EN 60950 ITE Certification
- EN 60601-1 Medical Certification








Total Output Power	28-35 W (20W, 1001) Medical Dependent
Output Voltage Centering	Output 1: +/-0.25% 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% (Local Sense)
Load Regulation	Output 1: 7% (0-100% Load Change) (1001) 10.0% (0-100% Load Change) (4001) 12.0% (0-100% Load Change) (Remote Sense) 0.5% (0-100% Load Change) Output 2: 5.0% (30-100% Load Change) (4001,3 & 4) 10.0% (30-100% Load Change) (2003, 4002) 12.0% (30-100% Load Change) Output 3: 1.0% (0-100% Load Change) Output 4: 1.0% (0-100% 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	12 mS Min, 28-35 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 - .80 (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		
	Overvoltage Category:	II	Reinforced Insulation 5656 VDC, Primary to Secondary, 1 Sec.		
	Pollution Degree:	2	Basic Insulation 2121 VDC, Primary to Ground, 1 Sec.		
	Ingress Protection	IP30	Operational Insulation 707 VDC, Secondary to Ground, 1 Sec.		
 Underwriters Laboratories File E137708	UL 60950, Third Edition		Leakage Current <300 ÅµA Earth Leakage Current		
	UL 2601 - 1 Second Edition		Mean Time Between Failures 100,000 Hours min., MIL-HDBK-217F, 25°C, GB		
 UL Recognition Mark for Canada File E137708	CB Report Per IEC 950 (1991)		Weight 1.6 Lbs.		
	Second Edition A1, A2, A3, A4		ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS		
	All EN 60950 Deviations				
 UL 60950 Third Edition	CB Report Per IEC 601-1-1988		Electrostatic Discharge	EN 61000-4-2	+/-8kV Contact Discharge +/-8kV Air Discharge
	First Edition, A1, A2		Radiated Electro-magnetic Field	EN 61000-4-3	80MHz-2.5GHz, 10V/m, 80% AM
 TUV	EN 60950:2000		EFT/Bursts	EN 61000-4-4	+/-2kV
	EN 60601-1/A2: 1995		Surges	EN 61000-4-5	+/-1 kV Differential Mode +/-2 kV Common Mode
	Low Voltage Directive		Conducted Immunity	EN 61000-4-6	.15-80MHz., 10V, 80% AM
			Voltage Dips and Intuptions	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 nad cover when ordering.

MODEL LISTING

Model	Output 1	Output 2	Output 3	Output 4	Output5
SRP-30A-4001	+3.3V/3A	+5V/2A	+12V/.35A	-12V/.35A	28W
SRP-30A-4002	+5V/3A	+3.3V/2A	+12V/.35A	-12V/.35A	30W
SRP-30A-4003	+5V/3A	-5V/2A	+12V/.35A	-12V/.35A	30W
SRP-30A-4004	+5V/3A	-5V/2A	+15V/.35A	-15V/.35A	30W
SRP-30A-4005	+5V/3A	+24V/.75A	+12V/.35A	-12V/.35A	30W
SRP-30A-4006	+5V/3A	+24V/.75A	+15V/.35A	-15V/.35A	30W
SRP-30A-3001	+5V/3A	+12V/1.5A	-12V/.5A		30W
SRP-30A-3002	+5V/3A	+15V/1.5A	-15V/.5A		30W
SRP-30A-2001	+5V/3A	+24V/.75A			30W
SRP-30A-2002	+5V/3A	+12V/1.5A			30W
SRP-30A-2003	+5V/3A	-5V/3A			30W
SRP-30A-2004	+12V/1.5A	-12V/1.5A			30W
SRP-30A-2005	+15V/1.5A	-15V/1.5A			30W
SRP-30A-1001	3.3V/9A				30W
SRP-35A-1002	5V/7A				35W
SRP-35A-1003	12V/2.9A				35W
SRP-35A-1004	15V/2.3A				35W
SRP-35A-1005	24V/1.45A				35W
SRP-35A-1006	48V/.73A				35W

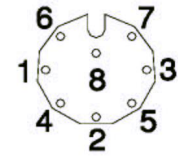


DETAIL A
SINGLE OUTPUT
8 PIN DIN

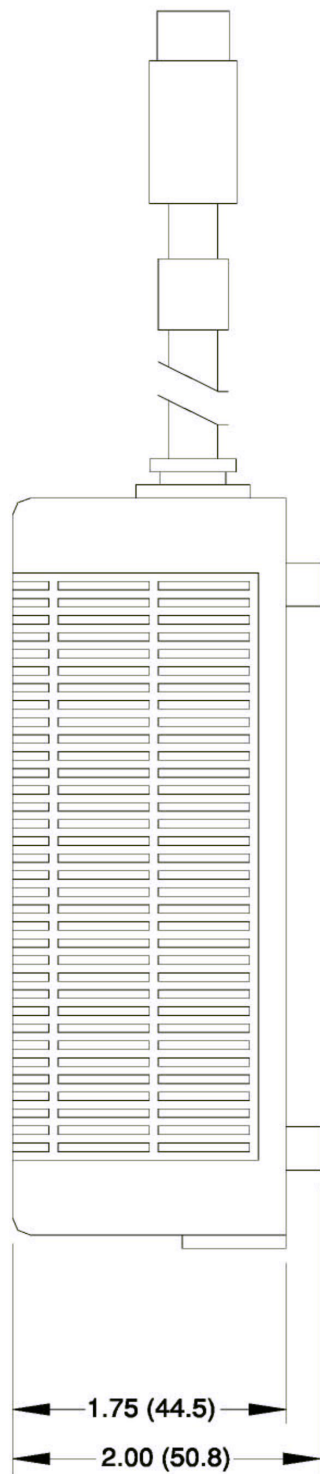


- 8 (+) SENSE
- 7 (+) OUTPUT 1
- 6 (+) OUTPUT 1
- 5 (+) OUTPUT 1
- 4 (-) OUTPUT 1
- 3 (-) OUTPUT 1
- 2 (-) OUTPUT 1
- 1 (-) SENSE

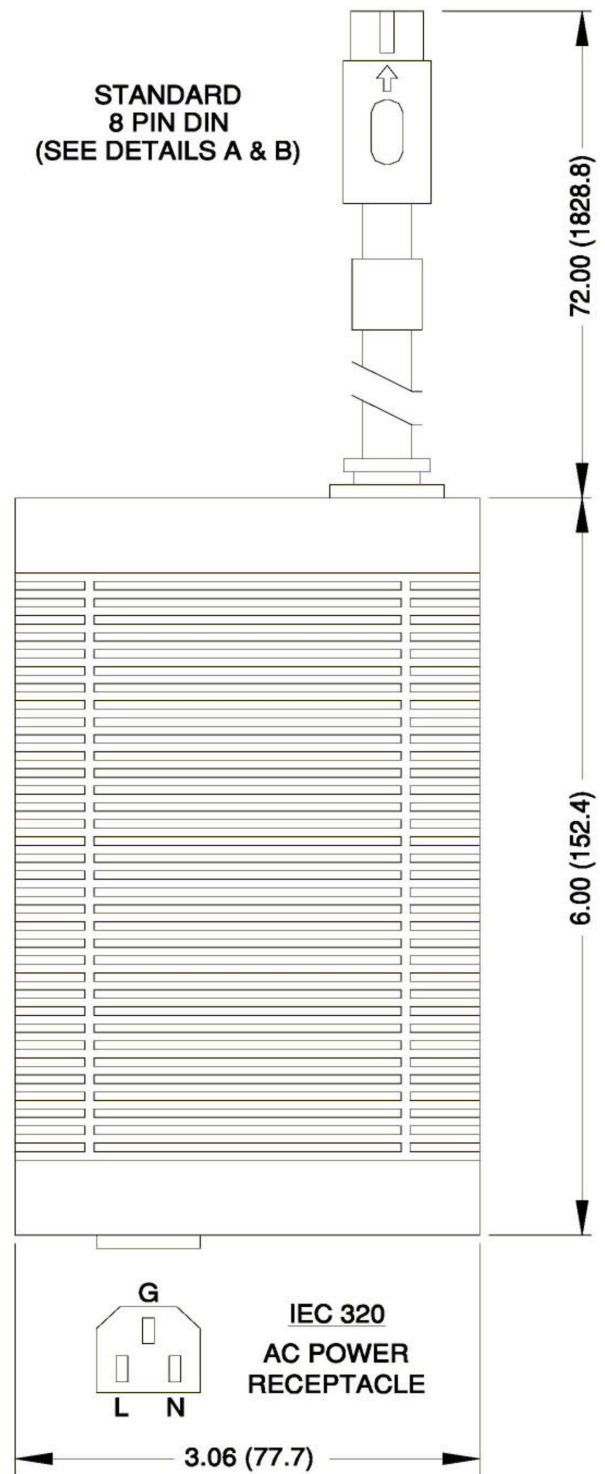
DETAIL B
MULTIPLE OUTPUT
8 PIN DIN



- 8 (-) OUTPUT 1
- 7 (+) OUTPUT 1
- 6 (-) OUTPUT 2
- 5 (+) OUTPUT 2
- 4 (-) OUTPUT 3
- 3 (+) OUTPUT 3
- 2 (-) OUTPUT 4
- 1 (+) OUTPUT 4



STANDARD
8 PIN DIN
(SEE DETAILS A & B)

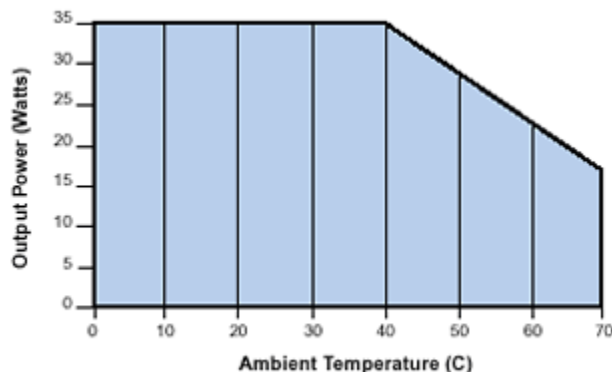


ALL DIMENSIONS: INCHES (MM)

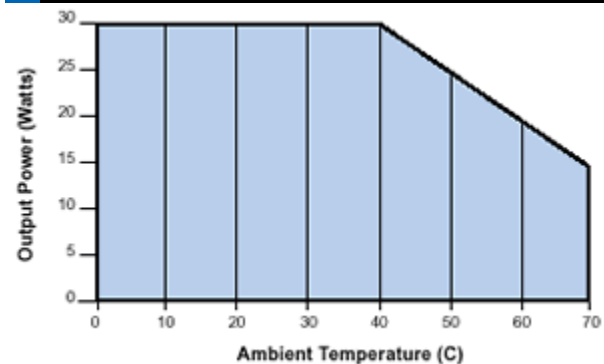
APPLICATIONS INFORMATION

1. Each output can deliver its rated current but total output power must not exceed 28-35 watts depending on model.
2. Sufficient area must be provided around convection cooled power supplies to allow natural movement of air to develop.
3. A minimum load of 10% is required on output one to insure proper regulation of remaining outputs.
4. 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 10 μ F) and a capacitor of 100 μ F/amp connected across the load.
5. Peak to peak output ripple and noise is measured directly across a 1 μ F ceramic capacitor at the output terminals of the power supply cord, without the use of the probe ground lead or retractable tip, 20 MHz bandwidth.
6. 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.
7. 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(30 W)



Maximum Output Power vs. Ambient Temperature(35 W)



CONNECTOR SPECIFICATION

AC Input IEC 320 AC Power Receptacle
DC 8 pin connector mates with Power
Output Dynamics 8 pin din socket #DS-048