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Find the *Integrated Power Designs SRP-30A-2005* at our website: *Click HERE*

35 WATTS

SRP-30/35 SERIES

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



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

OUTPUT SPECIFICATIONS

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%
Load Regulation	(Local Sense) 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

INTEGRATED POWER DESIGNS

SAFETY SPECIFICATIONS

General		Protection Class:	I
		Overvoltage Category:	II
		Pollution Degree:	2
		Ingress Protection	IP30
	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	
		UL 60950 Third Edition	
	UL Recognition Mark for Canada File E137708	CAN/CSA-C22.2 No. 60950-00 CAN/CSA-C22.2 No. 601-1-M90	
	TUV	EN 60950:2000 EN 60601-1/A2: 1995	
		Low Voltage Directive	

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.

GENERAL SPECIFICATIONS

Dielectric Strength	
Reinforced Insulation	5656 VDC, Primary to Secondary, 1 Sec.
Basic Insulation	2121 VDC, Primary to Ground, 1 Sec.
Operational Insulation	707 VDC, Secondary to Ground, 1 Sec.
Leakage Current	<300 ÂµA Earth Leakage Current
Mean Time Between Failures	100,000 Hours min., MIL-HDBK-217F, 25°C, GB
Weight	1.6 Lbs.

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS

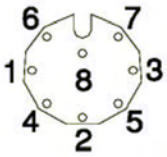
Electrostatic Discharge	EN 61000-4-2	+/-8kV Contact Discharge +/-8kVAir Discharge
Radiated Electro-magnetic Field	EN 61000-4-3	80MHz-2.5GHz, 10V/m, 80% AM
EFT/Bursts	EN 61000-4-4	+/-2kV
Surges	EN 61000-4-5	+/-1 kV Differential Mode +/-2 kV Common Mode
Conducted Immunity	EN 61000-4-6	.15-80MHz., 10V,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

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

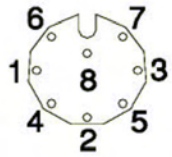
SINGLE OUTPUT
8 PIN DIN



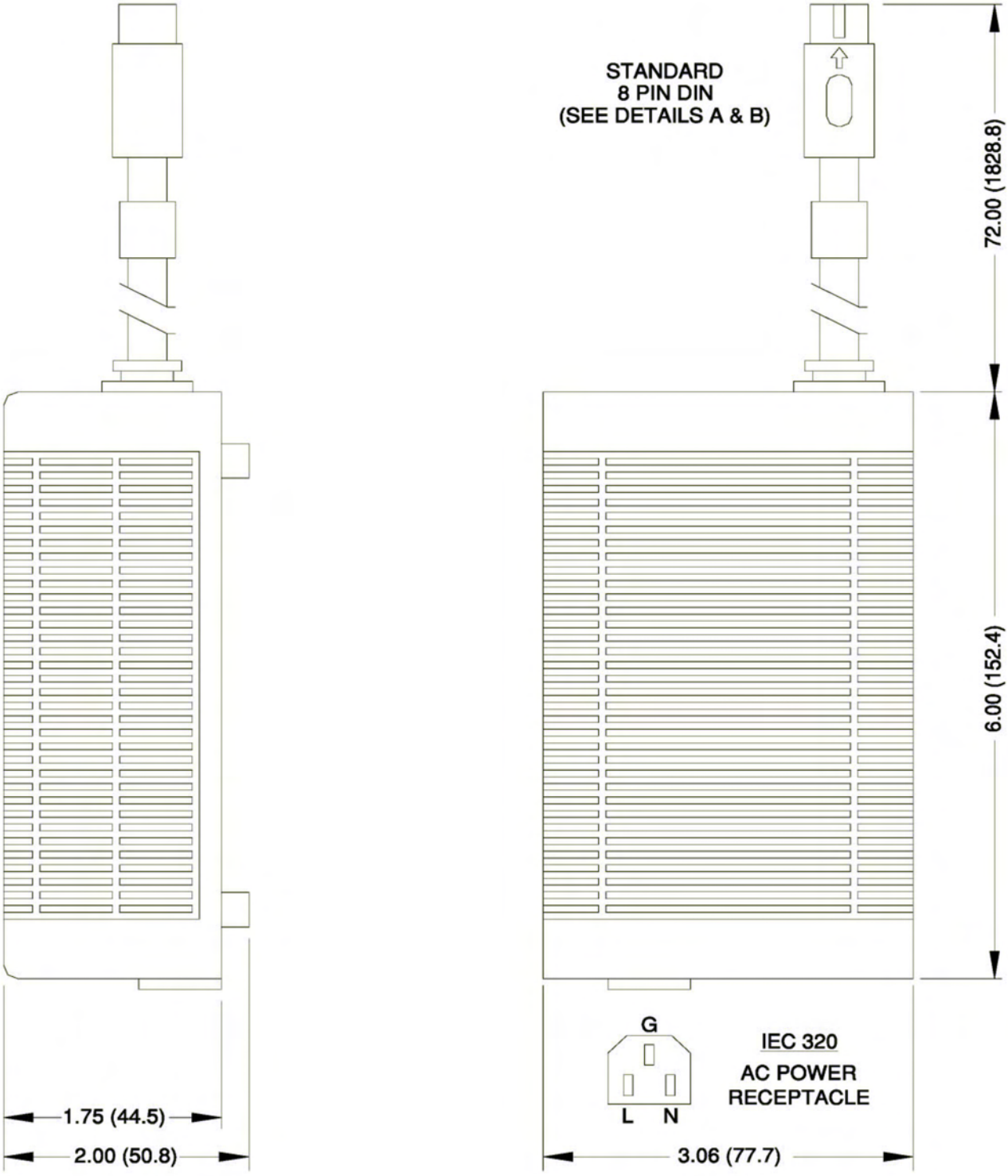
8	(+)	SENSE
7	(+)	OUTPUT 1
6	(+)	OUTPUT 1
5	(+)	OUTPUT 1
4	(-)	OUTPUT 1
3	(-)	OUTPUT 1
2	(-)	OUTPUT 1
1	(-)	SENSE

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



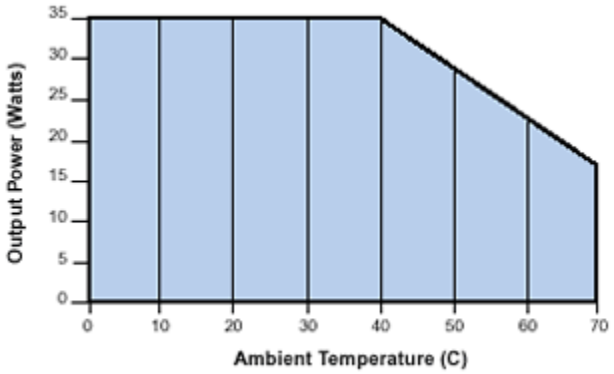
ALL DIMENSIONS: INCHES (MM)

INTEGRATED POWER DESIGNS

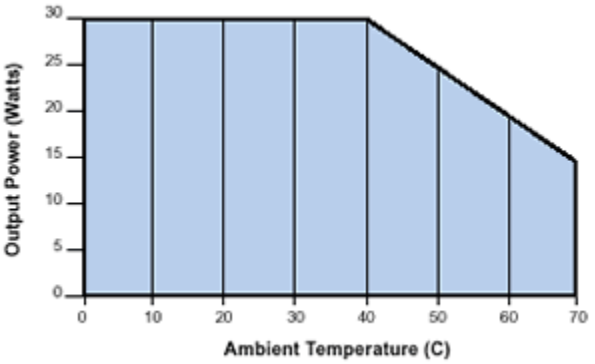
APPLICATIONS INFORMATION

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 10ÂµF) and a capacitor of 100ÂµF/amp connected across the load.
5. Peak to peak output ripple and noise is measured directly across a 1ÂµF 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 Output	8 pin connector mates with Power Dynamics 8 pin din socket #DS-048

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