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TECHNOLOGY GROUP

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35 Watts

SRP-30/35A SERIES

Features

- **Universal 85-264 VAC Input**
- **Compact 3.0" X 6.0" X 2.0" Size**
- **Class B Emissions Per EN 55022, 11**
- **EMC Compliant to EN 61000-4-2, 3, 4, 5, 6 & 11 and EN 60601-1-2**
- **2 Year Warranty**
- **EN 60950 ITE Certification**
- **EN 60601-1 Medical Certification**
- **UL Listed**



SAFETY SPECIFICATIONS

General	Protection Class:	I
	Overvoltage Category:	II
	Pollution Degree:	2
	Ingress Protection:	IP30
Underwriters Laboratories File E137708	UL60950 Third Edition UL2601-1 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 EMC Directive	

MODEL LISTING

MODEL NO.	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	MAX POWER
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

NOTES:

1. Consult factory for alternate output configurations.
2. Consult factory for positive, negative or floating output 2.
3. Remote sense leads provided on single output models.

All specifications are maximum at 25°C unless otherwise stated and are subject to change without notice.

OUTPUT SPECIFICATIONS

Total Output Power	28-35W Model Dependent	
Output Voltage Centering	Output 1: ± 0.25% Output 2: ± 5.0% Output 3: ± 3.0% Output 4: ± 3.0%	(All outputs at 50% rated load)
Source Regulation	Outputs 1-4: 0.5%	
Load Regulation	Output 1: 7.0% (0-100% Load Change) Output 1: 10% (Model 1001, 0-100%) Output 1: 12% (Model 4001, 0-100%) Output 1: 0.5% (Models w/ remote sense, 0-100%) Output 2: 5.0% (30-100% Load Change) Output 2: 10% (Model 4001,3&4 30-100%) Output 2: 12% (Model 4002,&2003 30-100%) 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 Span Resolution	 Output 1: 95% to 105% 1%	
Output Noise Source Freq. Switching Freq. Total (20MHz)	 Outputs 1-4: 0.5% Outputs 1-4: 1% Outputs 1-4: 1%	(Output under test at 100% rated load)
Turn On Overshoot	None	
Transient Response Voltage Deviation Recovery time Load change	Outputs 1-4 5% 2 mS 50% to 100%	
Output Overvoltage Protection	Output 1: 110% to 150%	
Output Overpower Protection	110% Min., Output 1&2 Outputs cycle on/off, auto recovery	
Output Overcurrent Protection	110% Min., Output 3 & 4	
Hold Up Time	12 mS Min, 28-35 W Output 120 V Input	
Start Up Time	1 Second	

INPUT SPECIFICATIONS

Source Voltage	85 - 264 Volts
Frequency Range	47-63 Hz.
Source Current True RMS Peak Inrush	 1A At 85V Input 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
Shock	Transit Drop per MIL-STD-810E, Method 516.4 Procedure IV
Vibration	MIL-STD-810E, Method 514.4, Category 1

GENERAL SPECIFICATIONS

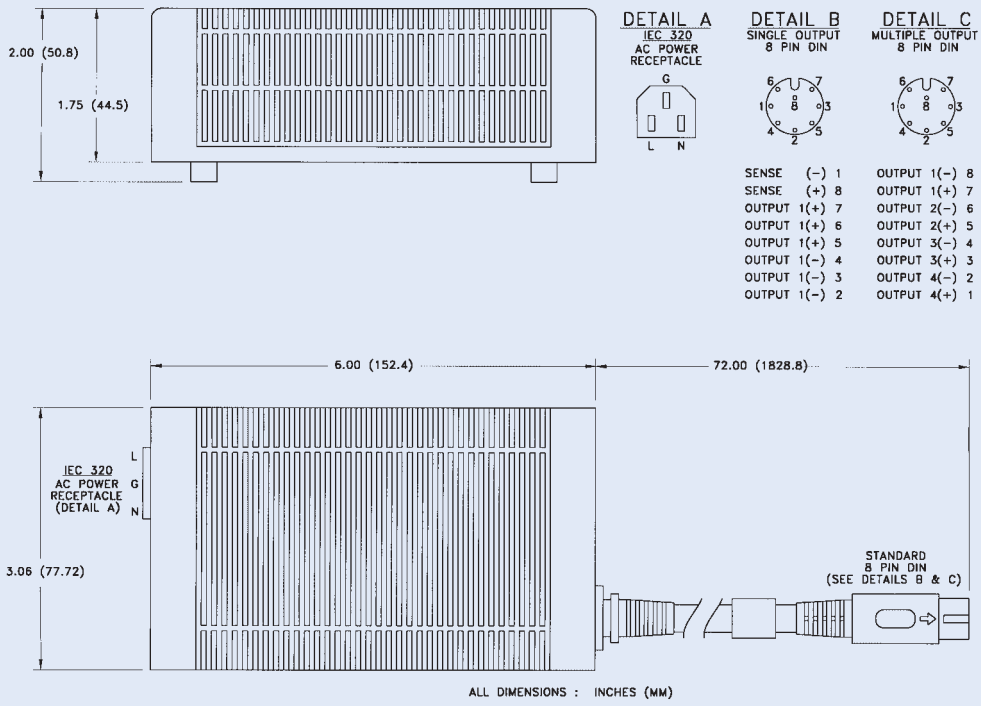
Dielectric Strength	5656 VDC, Primary to Secondary, 1 Sec. 2121 VDC, Primary to Ground, 1 Sec. 707 VDC, Secondary to Ground, 1 Sec.
Leakage Current	<300µA Earth Leakage Current <100µA Patient Leakage Current
Mean-Time Between Failures	100,000 hours, min. MIL-HDBK-217F, 25° C, GB
Weight	1.6 Lbs.

ELECTROMAGNETIC COMPATIBILITY SPECIFICATIONS

Electrostatic Discharge	EN 61000-4-2	6 kV Contact Discharge 8kV Air Discharge
Radiated Electromagnetic Field	EN 61000-4-3	3V/M, 26-1000MHz.
EFT/Bursts	EN 61000-4-4	2kV
Surges	EN 61000-4-5	1kV Differential Mode 2kV Common Mode
Conducted Immunity	EN 61000-4-6	3V,150KHz-80MHz.
Voltage Dips	EN 61000-4-11	30% Reduction, 25 periods 95% Reduction, 0.5 periods
Voltage Interruptions	EN 61000-4-11	95% Red., 250 periods
Radiated Emissions	EN 55011 EN 55022	Class B Class B
Conducted Emissions	EN 55011 EN 55022	Class B Class B

INTEGRATED POWER DESIGNS Ph: 570-824-4666 Fx: 570-824-4843

SRP-30/35A SERIES MECHANICAL SPECIFICATIONS



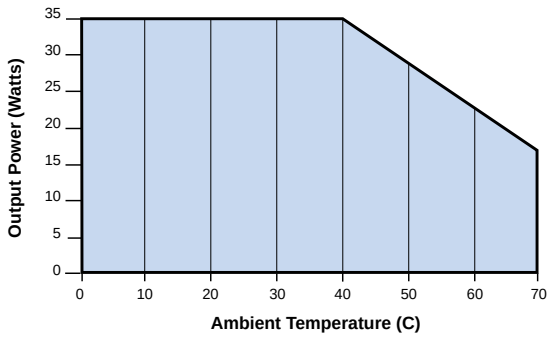
DC Output Connector:

- 8 pin connector mates with Power Dynamics 8 pin din socket #DS-048

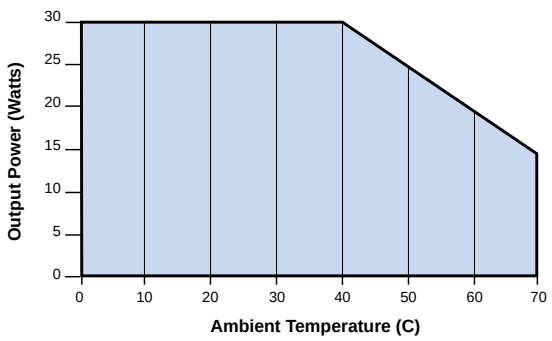
APPLICATIONS INFORMATION

1. Each output can deliver its rated current but total output power must not exceed 28-35 watts depending on model.
2. A minimum load of 10% is required on output one to insure proper regulation of remaining outputs.
3. Peak to peak output ripple and noise is measured directly across a 1µF 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.
4. 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 Temerature (35W Models)



Maximum Output Power vs. Ambient Temerature (30W Models)



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