- **FEATURES:**
- RoHS Compliant
- Universal 85-264 VAC Input
- Compact 3.3" x 5" x 1.5" Size
- 2 Year Warranty

. One to Four Tightly Regulated Outputs



• EN 60950-1 ITE Certification

• Optional Perforated Cover

• EN 60601-1 Medical Certification

• EMC to EN 61000-6-2 & EN 60601-1-2

OPEN	CHASSIS

CHASSIS/COVER

SAFETY S	PECIFICATIONS		
General		Protection Class: I Overvoltage Category: II Pollution Degree: 2	
c FLL us	Underwriters Laboratories File E137708/E140259	UL 60950-1 2 nd Edition, 2007 UL 60601-1 1 st Edition, 2006 AAMI/ANSI ES 60601-1, 2005	
IECEE SCHEME		CB Reports/Certificates (including all National and Group Deviations) IEC 60950-1:2009, Second Edition IEC 60601-1:1988 +A1:1991 +A2:1995 IEC 60601-1:2005 Third Edition	
c 711 us	UL Recognition Mark for Canada File E137708/E140259	2 ¹¹⁰ Edition Canada CAN/CSA-C22 2 No. 601-1-M90, 2005	
TUV	TUV	EN 60950-1/A12:2011 EN 60601-1/A2:1995 EN 60601-1:2006	

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Low Voltage Directive RoHS Directive (Recast)

(2006/95/EC of December 2006) (2011/65/EU of June 2011)

		(,	(======================================	
MODEL LIST	ING			
MODEL	NO. OUTP	UT 1 OUTP	UT 2 OUTPU	T 3 OUTPUT 4
SRW-100-40	001 +3.3V/10	A(2) +5V/4A	+12V/2A(3)	-12V/1A
SRW-100-40	002 +5V/10A	(2) +24V/2A	+12V/2A(3)	-12V/1A
SRW-100-40	003 +5V/10A	(2) +24V/2A	+15V/2A(3)	-15V/1A
SRW-100-40	004 +5V/10A	(2) -5.2V/4A	+12V/2A(3)	-12V/1A
SRW-100-40	005 +5V/10A	(2) -5.2V/4A	+15V/2A(3)	-15V/1A
SRW-100-40	006 +5V/10A	(2) +3.4V/4 <i>I</i>	4 +9V/1A	24V/.50A
SRW-100-40	007 +5V/10A	(2) +15V/3A	+12V/2A	-12V/1A
SRW-100-40	008 +5V/10A	(2) +3.3V/4A	+12V/2A	-5V/1A
SRW-100-40	009-IT +3.3V/10	A(2) +5V/4A	+12V/2A	-5V/1A
SRW-100-40)10 +5V/5A	+15V/4A	+12V/2A(3)	9V/2.5A
SRW-100-40)11 +5V/10A	(2) -15V/2.2	A +15V/2A(3)	12V/1A
SRW-100-40)12 +5V/10A	(2) +3.3V/4A	4 +12V/2A(3)	-12V/1A
SRW-100-30	001 +5V/10A	(2) +12V/4A		-12V/1A
SRW-100-30	002 +5V/10A	(2) +15V/3A		-15V/1A
SRW-100-30	003 +5V/10A	(2) +3.3V/8A	A .	12V/1A
SRW-100-30	004 +3.3V/5A	+5.8V/3	A .	-48V/1A
SRW-100-20	001 +12V/5A	-12V/4A		
SRW-100-20	002 +15V/5A	-15V/3A		
SRW-100-20	003 +12.5V/4	A +16V/2A		
SRW-100-10	001 3.3V/20A	.(4)		
SRW-100-10	002 5V/20A			
SRW-100-10	003 12V/8.3A	ı		
SRW-100-10	004 15V/6.7A	ı		
SRW-100-10	005 24V/4.2A	ı		
SRW-100-10	006 28V/3.6A	ı		
SRW-100-10	007 48V/2.1A	ı		
SRW-100-10	008 40V/2.5A	ı		
SRP-100-40	01 +5V/12A	(2) +24V/3A	+12V/2A(3)	-12V/1A
SRP-100-40				-15V/1A
SRP-100-40		. ,	+12V/2A(3)	-12V/1A
SRP-100-40			+15V/2A(3)	-15V/1A
SRP-100-40 SRP-100-30		,		-8V/1A -12V/1A
SRP-100-30				-12V/1A
3KP-100-20	UI +3V/12A	2) +Z4V/3A		

OUTPUT SPECIFICAT	IONS	
Total Output Powerat 50°C	70W	Convection Cooled
Total Output Powerat 50 C	70W 85W	Covection cooled w/1Sq. ft baseplate
	100W	200 LFM Forced Air
Output Voltage Centering	Output 1:	± 0.25% (All outputs at 50% load)
Surput Voltage Sentering	Output 2: (SRW)	
	(SRP)	
	Output 3:	± 2.0%
	Output 4:	± 4.0%
Output Voltage Adjust Range	Output 1:	95 - 105%
Output Voltage Adjust Range	Output 1.	85 - 105% (1001, 4001)
	Output 2:	95 - 105% (SRW models only)
Load Regulation	Output 1:	0.5% (10-100% load change)
Load Regulation	Output 2: (SRW)	
	(SRP)	5.0% (10-100% load change)
	Output 3:	1.0% (10-100% load change)
	Output 4:	1.0% (10-100% load change)
Source Regulation	Outputs 1 – 4:	0.5%
Cross Regulation	Output 2: (SRW)	
	(SRP)	5.0%
	Output 3:	0.2%
	Output 4:	0.2%
Output Noise	Outputs 1 - 4:	1.0%
Turn on Overshoot	None	
Transient Response	Outputs 1 – 4	
Voltage Deviation	5.0%	
Recovery Time	2mS	
Load Change	50% to 100%	
Output Overvoltage Protection	Output 1:	110% to 150%
(optional)		
Output Overpower Protection	Outputs 1 & 2:	110W Min.
		off, auto recovery
Output Overcurrent Protection	Outputs 3 & 4:	110% Min.
Hold Up Time		N output, 120V Input
Start Up Time	1 Second	
INPUT SPECIFICATIO		
Source Voltage	85 – 264 Volts A	2
Frequency Range	47 – 63 Hz	
Source Current		
True RMS	3A at 85V Input	
Peak Inrush	30A	
Efficiency	.6884 (varies by	
ENVIRONMENTAL SP		NS .
Ambient Operating	0° C to + 70° C	
Temperature Range	Derating: See Po	wer Rating Chart
Ambient Storage Temp. Range	- 40° C to + 85°	C
Temperature Coefficient	Outputs 1 – 4:	0.02%/°C
GENERAL SPECIFICA	TIONS	
Means of Protection		
Primary to Secondary	2MOPP (Means	of Patient Protection)
Primary to Ground		of Patient Protection)
Secondary to Ground		ation(Consult factory for 1MOOP or 1MOPP)
Dielectric Strength(15)	•	,
Reinforced Insulation	5656 VDC, Prima	ary to Secondary, 1 Sec.
Basic Insulation		ary to Ground, 1 Sec.
Operational Insulation		dary to Ground, 1 Sec.
Leakage Current		
Earth Leakage	<500uA NC, <10	00uA SFC
Touch Current	<100uA NC, <50	
Dower Fail Signal		out nower failure 2 mC

Weight

Power Fail Signal

Remote Sense(single

Output Models only) Mean-Time Between Failures

(optional)

Consult factory for alternate output configurations. Consult factory for positive, negative or floating outputs.

Refer to Applications Information for complete output power ratings.

All specifications are maximum at 25° C, 100W unless otherwise stated, may vary by model and are subject to change without notice.

1.00 Lbs.

1.05 Lbs.

Logic low with input power failure 2 mS

minimum prior to Output 1 dropping 1%

Open Frame

w/Cover

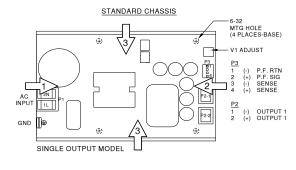
250mV compensation of output cable losses

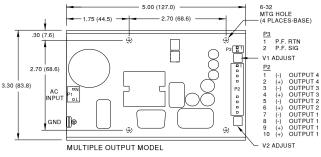
150,000 Hours min., MIL-HDBK-217F, 25° C, GB

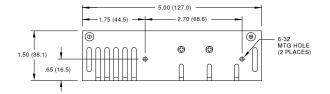
Specify optional perforated cover, power fail, overvoltage protection, isolated output 2, isolated output 4 or DC Input when ordering.

EL ECTROMA ONETIC	COMPATIBLE	ITY ODEOLEIO ATIONO
ELECTROMAGNETIC	COMPATIBIL	LITY SPECIFICATIONS
Electrostatic Discharge	EN 61000-4-2	±8kV Contact Discharge
		±8kV Air Discharge
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.5GHz, 10/m, 80% AM
EFT/Bursts	EN 61000-4-4	±2 kV
Surges	EN 61000-4-5	±1kV Differential Mode
		±2 kV Common Mode
Conducted Immunity	EN 61000-4-6	.15 to 80MHz, 3V, 80% AM
Voltage Dips and Interruptions	EN 61000-4-11	30% Reduction, 500ms
		95% Reduction, 10ms
		60% Reduction, 1s (Criteria B)
		95% Reductions, 5000ms
Radiated Emissions	EN 55022/11	Class B
Conducted Emissions	EN 55022/11	Class B

SRW/SRP-100 SERIES MECHANICAL SPECIFICATIONS

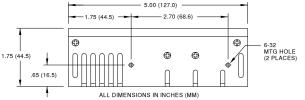






5.00 (127.0) 2.70 (68.6) 2.70 (68.6) 2.70 (68.6) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8) 3.00 (33.8)

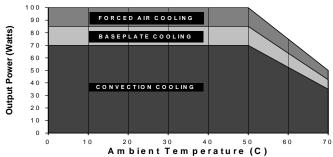
OPTIONAL COVER



APPLICATIONS INFORMATION

- Each output can deliver its rated current but total output power must not exceed 70, 85 or 100 watts as determined by the cooling method.
- Rated 8A maximum with convection cooled only.
- 3. Rated 1A maximum when convection cooled only.
- Rated 50 watts maximum output power when convection cooled, 70 watts when baseplate or forced air cooled.
- 5. Free air convection cooling, 70 watts maximum output power.
- Base plate cooling rating of 85 watts requires a one square foot .09" thick aluminum area attached to bottom four mounting holes.
- Forced air cooling rating of 100 watts requires an air speed of 200 linear feet per minute flowing past a point one inch above the main isolation transformer.
- 8. Semiconductor case temperatures must not exceed 110°C.
- Sufficient area must be provided around convection cooled power supplies to allow natural movement of air to 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 ensure proper regulation of remaining outputs.
- 12. 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 10μF) and a capacitor of 100μF/amp connected across the load side.
- 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.
- 14. This product includes only one fuse in the input circuit. In consideration of Clause 8.11.5 of IEC 60601-1:2005, a second fuse may be required in the end product.
- 15. This product was type tested and safety certified using the dielectric strength test voltages listed in Table 6 of IEC 60601-1:2005. In consideration of Clause 8.8.3, care must be taken to insure that the voltage applied to a reinforced insulation does not overstress different types and levels of insulation. Primary and secondary to ground capacitors may need to be disconnected prior to performing a dielectric strength test on the power supply or the end product. It is highly recommended that the DC test voltages listed in DVB.1, Annex DVB of UL 60601-1 1st Edition 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 an AC dielectric strength test.
- 17. Maximum screw penetration into chassis mounting holes is .125 inches.

MAXIMUM OUTPUT POWER VS. AMBIENT TEMPERATURE



		. , ,
CO	NNECTOR S	SPECIFICATIONS
P1	AC Input	Terminal block with 4-40 inch screws on 0.325 inch centers
	(Single)	with #4 spade terminals
P1	AC Input	.156 friction lock header mates with Molex 09-50-3031 or
	(Multiple)	equivalent crimp terminal housing with Molex 08-50-0189 or
		equivalent crimp terminal.
P2	DC Output	6-32 screw down terminal mates with #6 ring tongue
	(Single)	terminal. (10 in-lb max.)
P2	DC Output	.156 friction lock header mates with Molex 09-50-3101 or
	(Multiple)	equivalent crimp terminal housing with Molex 08-50-0189 or
		equivalent crimp terminal.
G	Ground	.187 quick disconnect terminal.
P3	Option/Sense	.100 friction lock header mates with Molex 22-01-2047 or
	(Single)	equivalent crimp terminal housing with Molex 6459 or equivalent
		crimp terminal.
P3	Option	.100 friction lock header mates with Molex 22-01-2027 or
	(Multiple)	equivalent crimp terminal housing with Molex 6459 or equivalent
		crimp terminal.

Recommended Air Flow Direction

 $1 - Optimum \qquad 2 - Good \qquad 3 - Fair$