# **100 WATTS**

## SINGLE/MULTI OUTPUT AC-DC

## FEATURES:

- Compact 3.3" x 5" x 1.5" Size
- 2 Year Warranty
- Universal 85-264V Input
- 1-4 Tightly-Regulated Outputs
- 0-70°C Operating Temperature
- RoHS Compliant
- IEC 60601-1 3rd ed. Medical Cert.
- IEC 60950-1 2<sup>nd</sup> ed. ITE Certification
   IEC 60601-1-2 4<sup>th</sup> ed. EMC
- Class B Emissions per EN55011/32
- Optional Power Fail Warning
- Optional Perforated Cover

OPEN CHASSIS



CHASSIS/COVER

# SAFETY SPECIFICATIONS

c <b>FL</b> us	Underwriters Laboratories File E137708/E140259	UL 60950-1:2007, 2 <sup>nd</sup> Edition AAMI/ANSI ES60601-1:2005/(R) 2012
IECEE Scheme		CB Reports/Certificates (including all National and Group Deviations) IEC 62368-1:2014, 2 <sup>nd</sup> Edition IEC 60601-1:2005/A1:2012
c 🔁 us	UL Recognition Mark for Canada File E137708/E140259	CAN/CSA-C22.2 No. 60950-1-07, 2 <sup>nd</sup> Edition CAN/CSA-C22.2 No. 60601-1:2014
	TUV	EN 62368-1:2014, 2 <sup>nd</sup> Edition EN 60601-1:2006/A1:2013
CE	Low Voltage Directive RoHS Directive (Recast)	(2014/35/EU of February 2014) (2011/65/EU of June 2011)

#### MODEL LISTING MODEL NO OUTPUT 1 OUTPUT 2 OUTPUT 3 OUTPUT 4

MODEL NO.	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4
 SRW-100-4001	+3.3V/10A(17)	+5V/4A	+12V/2A(18)	-12V/1A
SRW-100-4002	+5V/10A(17)	+24V/2A	+12V/2A(18)	-12V/1A
SRW-100-4003	+5V/10A(17)	+24V/2A	+15V/2A(18)	-15V/1A
SRW-100-4004	+5V/10A(17)	-5.2V/4A	+12V/2A(18)	-12V/1A
SRW-100-4005	+5V/10A(17)	-5.2V/4A	+15V/2A(18)	-15V/1A
SRW-100-4006	+5V/10A(17)	+3.4V/4A	+9V/1A	24V/.50A
SRW-100-4007	+5V/10A(17)	+15V/3A	+12V/2A	-12V/1A
SRW-100-4008	+5V/10A(17)	+3.3V/4A	+12V/2A	-5V/1A
SRW-100-4009-IT	+3.3V/10A(17)	+5V/4A	+12V/2A	-5V/1A
SRW-100-4010	+5V/5A	+15V/4A	+12V/2A(18)	9V/2.5A
SRW-100-4011	+5V/10A(17)	-15V/2.2A	+15V/2A(18)	12V/1A
SRW-100-4012	+5V/10A(17)	+3.3V/4A	+12V/2A(18)	-12V/1A
SRW-100-3001	+5V/10A(17)	+12V/4A		-12V/1A
SRW-100-3002	+5V/10A(17)	+15V/3A		-15V/1A
SRW-100-3003	+5V/10A(17)	+3.3V/8A		12V/1A
SRW-100-3004	+3.3V/5A	+5.8V/3A		-48V/1A
SRW-100-2001	+12V/5A	-12V/4A		
SRW-100-2002	+15V/5A	-15V/3A		
SRW-100-2003	+12.5V/4A	+16V/2A		
SRW-100-1001	3.3V/20A(19)			
SRW-100-1002	5V/20A			
SRW-100-1003	12V/8.3A			
SRW-100-1004	15V/6.7A			
SRW-100-1005	24V/4.2A			
SRW-100-1006	28V/3.6A			
SRW-100-1007	48V/2.1A			
SRW-100-1008	40V/2.5A			
SRP-100-4001	+5V/12A(17)	+24V/3A	+12V/2A(18)	-12V/1A
SRP-100-4002	+5V/12A(17)	+24V/3A	+15V/2A(18)	-15V/1A
SRP-100-4003	+5V/12A(17)	-5V/4A	+12V/2A(18)	-12V/1A
SRP-100-4004	+5V/12A(17)	-5V/4A	+15V/2A(18)	-15V/1A
SRP-100-4005	+5V/12A(17)	+12V/3A	+8V/2A	-8V/1A
SRP-100-3001	+5V/12A(17)	+12V/4A		-12V/1A
SRP-100-2001	+5V/12A(17)	+24V/3A		

# SRW/SRP-00

Total Output Power at 50°C(1)	70W 85W	Convectio	n Cooled n Cooled w/1Sq.ft baseplate(16)
(See Derating Chart)	85W 100W		n Cooled w/1Sq.ft baseplate(16) orced-Air Cooled(15)
Output Voltage Centering	Output 1:	± 0.25%	(All outputs at 50% load)
	Output 2: (SRW)		() outpute ut oo /o loud)
	(SRP)	± 5.0%	
	Output 3:	± 2.0%	
	Output 4:	$\pm 4.0\%$	
Output Voltage Adjust Range	Output 1:	95 - 105%	
		85 - 105%	
a a d Da sudatia s	Output 2:	95 - 105%	
Load Regulation	Output 1: Output 2: (SRW)	0.5% 0.5%	(10-100% load change) (10-100% load change)
	(SRP)	0.5% 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)	0.2%	(Output 1 load varied 50-100%)
	(SRP)	5.0%	
	Output 3:	0.2%	
Output Noise	Output 4: Outputs 1 - 4:	0.2%	
Turn on Overshoot	None	1.0/0	
Transient Response	Outputs 1 – 4		
Voltage Deviation	5.0%		
Recovery Time	2mS		
Load Change	50% to 100%		
Output Overvoltage Protection	Output 1:	110% to 15	0%
(optional)	Quita 1 8 0	11014/ 14:0	
Output Overpower Protection	Outputs 1 & 2: Outputs cycle on	110W Min.	20Ven/
Output Overcurrent Protection	Outputs 3 & 4:	110% Min.	Jovery
Hold Up Time	10ms min., 100W		0V Input
Start Up Time	1 Second		
INP	UT SPECIFIC	CATION	S
Protection Class	I		
Source Voltage	85 – 264 Volts A	C	
Frequency Range	47 – 63 Hz		
Source Current			
True DMC			
True RMS Reak Inrush	3A at 85V Input		
Peak Inrush	30A .	by model)	
Peak Inrush Efficiency	30A 0.68-0.84 (varies		ATIONS
Peak Inrush Efficiency ENVIRON	30A 0.68-0.84 (varies IMENTAL SP		ATIONS
Peak Inrush Efficiency ENVIRON Ambient Operating	30A 0.68-0.84 (varies MENTAL SP 0°C to + 70°C	ECIFIC	
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Please specify the following optional features when ordering:

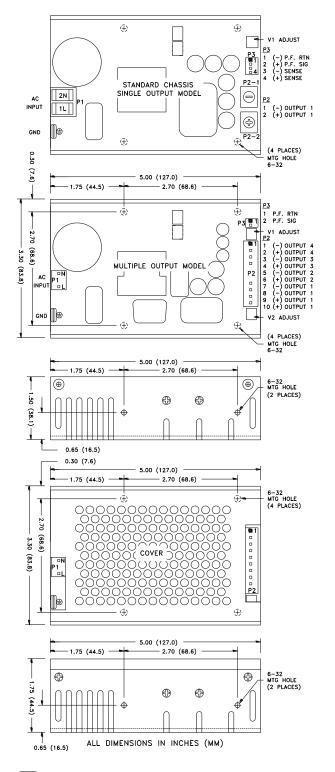
CO - Cover PF - Power Fail OVP - Overvoltage Protection I/O - Isolated Outputs TS - Terminal Strip

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



<b>EMC SPECIFICATION</b>	S (IEC 60601-1-:	2:2014, 4 <sup>™</sup> ed./IEC 61000	-6-2:2005)
Electrostatic Discharge	EN 61000-4-2	±8KV contact / ±15KV air dis	scharge A
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.7GHz, 10V/m, 80%	AM A
Electrical Fast Transients/Bursts	EN 61000-4-4	±2 KV, 5KHz/100KHz	A
Surge Immunity	EN 61000-4-5	±2 KV line to earth / ±1 KV li	ine to line A
Conducted Immunity	EN 61000-4-6	0.15 to 80MHz, 10V, 80% AM	A N
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60 Hz.	A
Voltage Dips	EN 61000-4-11	- · · · · · · · · · · · · · · · · · · ·	00/240V A/A
		0% U <sub>T</sub> , 1 cycles, 0° 1	00/240V A/A
		40% U <sub>T</sub> , 10/12 cycles, 0° 1	00/240V B/A
		70% UT, 25/30 cycles, 0° 1	00/240V B/A
Voltage Interruptions	EN 61000-4-11	0% U <sub>T</sub> , 300 cycles, 0° 1	00/240V B/B
Radiated Emissions	EN 55011/32	Class B	
Conducted Emissions	EN 55011/32	Class B	
Voltage Fluctuations/Flicker	EN 61000-3-3	Compliant	

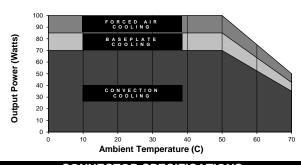
## SRW/SRP-100 SERIES MECHANICAL SPECIFICATIONS



#### **APPLICATIONS INFORMATION**

- Each output can deliver its rated current but Total Output Power must not exceed 70, 85 or 100W, as determined by the cooling method.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection-cooled applications.
- This product is intended for use as a professionally-installed component within information technology, industrial, and medical equipment and is not intended for stand-alone operation.
- A minimum load of 10% is required on Output 1 to ensure proper regulation of remaining outputs.
- 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 neutral conductor of the end product.
- 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 (tip-and-barrel method), 20 MHz bandwidth.
- 8. 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 ensure 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 60601-11 <sup>st</sup> 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.
- Remote-Sense terminals may be used to compensate for cable losses up to 250mV, depending on model. The use of a twisted pair, decoupling capacitors and an appropriately-rated low-impedance capacitor connected across the load will increase noise immunity.
- 11. Maximum screw penetration into chassis mounting holes is 0.125 inches.
- To comply with emissions specifications, all four mounting hole pads must be electrically connected to a common metal chassis. Chassis/Cover option is recommended. Refer to Operating Instructions for additional information.
- Common RF shielding precautions may need to be taken to assure emissions compliance. Refer to Operating Instructions for additional information.
- Power Fail (AC-Good) feature provides a logic-low warning signal from an open collector transistor output 2ms prior to loss of output from AC failure.
- Forced-Air cooling rating of 100W requires an air speed of 200LFM flowing past a point one inch above the main isolation transformer.
- Baseplate cooling rating of 85W requires a one-square-foot 0.09"-thick aluminum area attached to bottom four mounting holes.
- 17. Rated 8A maximum when convection cooled only.
- 18. Rated 1A maximum when convection cooled only.
- Rated 50W maximum output power when convection cooled; 70W when baseplate or forced-air cooled.

#### MAXIMUM OUTPUT POWER vs. AMBIENT TEMPERATURE



		CONNECTOR SPECIFICATIONS
P1	AC Input (Single)	Terminal block with 4-40 inch screws on 0.325 inch centers with #4 spade terminals.
P1	AC Input (Multiple)	0.156 friction lock header mates with Molex 09-50-3031 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
P2	DC Output (Single)	6-32 screw down terminal mates with #6 ring tongue terminal. (10 in-lb max.)
P2	DC Output (Multiple)	0.156 friction lock header mates with Molex 09-50-3101 or equivalent crimp terminal housing with Molex 08-50-0189 or equivalent crimp terminal.
G	Ground	0.187 quick disconnect terminal.
P3	Option/Sense (Single)	0.100 friction lock header mates with Molex 22-01-2047or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.
P3	Option (Multiple)	0.100 friction lock header mates with Molex 22-01-2027or equivalent crimp terminal housing with Molex 6459 or equivalent crimp terminal.

INTEGRATED