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 62368-1 2nd ed. Certification
IEC 60601-1-2 4th ed. EMC

Optional Power Fail Warning

• Class B Emissions per EN55011/32

CHASSIS/COVER

OPEN CHASSIS

	CHAS	SIS/COVER			<u>5</u>	
		OAFETV				
		SAFETY	SPECIFIC			
c RL us	Underwrite File E1377	ers Laboratories /08/E140259	CAN/ AAMI	2368-1:2014, 2 nd CSA-C22.2 No. 6 /ANSI ES60601- <u>CSA-C22.2 No. 6</u>	2368-1-14, 2 nd Editic 1:2005/(R) 2012	'n
		s/Certificates (incl nd Group Deviatio		2368-1:2014, 2n 0601-1:2005/A1:		
	TUV SUD	America		2368-1:2014, 2nc 0601-1:2006/A1:2		
CE		ge Directive ective (Recast)		/35/EU of Februa /863/EU of Marc	, ,	
UK	Electrical E	Equipment (Safety) Regulations 2	016 SI No. 1101		
ĊÀ	Restriction	of the Use of Cer 0. 3032 + 2019 SI	tain Hazardous	Substances in E	EE Regulations	
MC). OUTPUT 1				
IVIC	JDEL NC		0012012	0017013	0017014	
DPSRW-1	100 -4001	+3.3V/10A(17)	+5V/4A	+12V/2A(18)	-12V/1A	
DPSRW-1	100-4002	+5V/10A(17)	+24V/2A	+12V/2A(18)	-12V/1A	
DPSRW-1	100-4003	+5V/10A(17)	+24V/2A	+15V/2A(18)	-15V/1A	
DPSRW-1	100-4004	+5V/10A(17)	-5.2V/4A	+12V/2A(18)	-12V/1A	
DPSRW-1	100-4005	+5V/10A(17)	-5.2V/4A	+15V/2A(18)	-15V/1A	
DPSRW-1	100-4006	+5V/10A(17)	+3.4V/4A	+9V/1A	24V/.50A	
DPSRW-1	100-4007	+5V/10A(17)	+15V/3A	+12V/2A	-12V/1A	
DPSRW-1	100-4008	+5V/10A(17)	+3.3V/4A	+12V/2A	-5V/1A	
DPSRW-1	100-4009-IT	+3.3V/10A(17)	+5V/4A	+12V/2A	-5V/1A	
DPSRW-1	100-4010	+5V/5A	+15V/4A	+12V/2A(18)	9V/2.5A	
DPSRW-1	100-4011	+5V/10A(17)	-15V/2.2A	+15V/2A(18)	12V/1A	
DPSRW-1	100-4012	+5V/10A(17)	+3.3V/4A	+12V/2A(18)	-12V/1A	
DPSRW-1	100-3001	+5V/10A(17)	+12V/4A		-12V/1A	
DPSRW-1	100-3002	+5V/10A(17)	+15V/3A		-15V/1A	
DPSRW-1	100-3003	+5V/10A(17)	+3.3V/8A		12V/1A	
DPSRW-1	100-3004	+3.3V/5A	+5.8V/3A		-48V/1A	
DPSRW-1	100-2001	+12V/5A	-12V/4A			
DPSRW-1		+15V/5A	-15V/3A			
DPSRW-1		+12.5V/4A	+16V/2A			
DPSRW-1	100-1001	3.3V/20A(19)				
DPSRW-1		5V/20A				
DPSRW-1		12V/8.3A				
DPSRW-1		15V/6.7A				
DPSRW-1		24V/4.2A				
DPSRW-1		28V/3.6A				
DPSRW-1		48V/2.1A				
DPSRW-1		40V/2.5A				
DPSRP-1		+5V/12A(17)	+24V/3A	+12V/2A(18)	-12V/1A	
DPSRP-1		+5V/12A(17)	+24V/3A	+15V/2A(18)	-15V/1A	
DPSRP-1		+5V/12A(17)	-5V/4A	+12V/2A(18)	-12V/1A	
DPSRP-1		+5V/12A(17)	-5V/4A	+15V/2A(18)	-15V/1A	
DPSRP-1		+5V/12A(17)	+12V/3A	+8V/2A	-8V/1A	
DPSRP-1	100-3001	+5V/12A(17)	+12V/4A		-12V/1A	
DPSRP-1	100-2001	+5V/12A(17)	+24V/3A			

PSRW/SRP-100

	PUT SPECIF	ICATIONS
Total Output Power at 50°C(1)	70W	Convection Cooled
(See Derating Chart)	85W	Convection Cooled w/1Sq.ft baseplate(16)
	100W	200LFM Forced-Air Cooled(15)
Output Voltage Centering	Output 1:	$\pm 0.25\%$ (All outputs at 50%
	<i>,</i>	DPSRW) ± 0.25% (DPSRP) ± 5.0%
	Output 3:	± 2.0%
	Output 4:	± 4.0%
Output Voltage Adjust Range	Output 1:	95 - 105%
	Output 2:	85 - 105% (1001, 4001) 95 - 105% (SRW models only)
Load Regulation	Output 1:	0.5% (10-100% load change)
	Output 2: (DPSF	RW) 0.5% (10-100% load change)
	(DPSRF Output 3:	P) 5.0% (10-100% load change) 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: (DPSF	
croco riogulatori	(DPSRF	
	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.
		n/off, auto recovery
Output Overcurrent Protection	Outputs 3 & 4:	110% Min.
Hold Up Time		V Output, 120V Input
Start Up Time	1 Second	0.1.71.0.1.0
	UT SPECIFI	CATIONS
Protection Class		
Source Voltage	85 – 264 Volts A	
Frequency Range	47 – 63 Hz	
Source Current True RMS	2A at 95\/ laput	
Peak Inrush	3A at 85V Input 30A	
Efficiency	0.68-0.84 (varies	s hy model)
	0°C to + 70°C	ECIFICATIONS
Ambient Operating Temperature Range		ower Rating Chart
	- 40°C to + 85°C	
Ambient Storage Temp. Range Temperature Coefficient		
	Outputs 1 – 4: RAL SPECII	
	RAL SPECI	
Means of Protection		of Datient Protection)
Primary to Secondary Primary to Ground		of Patient Protection) of Patient Protection)
Secondary to Ground		lation(Consult factory for 1MOPP)
Dielectric Strength _(8, 9)		
Reinforced Insulation	5656 VDC Prim	ary to Secondary
Basic Insulation	2121 VDC, Prim	
Operational Insulation		ondary to Ground
Leakage Current	-,	č
Earth Leakage	<500µA NC, <10	000µA SFC
Touch Current	<100µA NC, <50	00µA SFC
Power Fail Signal	Logic low with in	put power failure 2ms
(optional)(14)	minimum prior to	Output 1 dropping 1%
Remote Sense(single		sation of output cable losses
Output Models only)(10)		
Mean-Time Between Failures		nin., MIL-HDBK-217F, 25° C, GB
Weight		en Frame
		Cover
	ERING INFO	RMATION
Consult factory for alternate output	configurations.	
Consult factory for positive, negative		ts.

Consult factory for positive, negative or floating outputs.

Please specify the following optional features when ordering:

CO - Cover	
PF - Power Fail	
OVP - Overvoltage Protection	

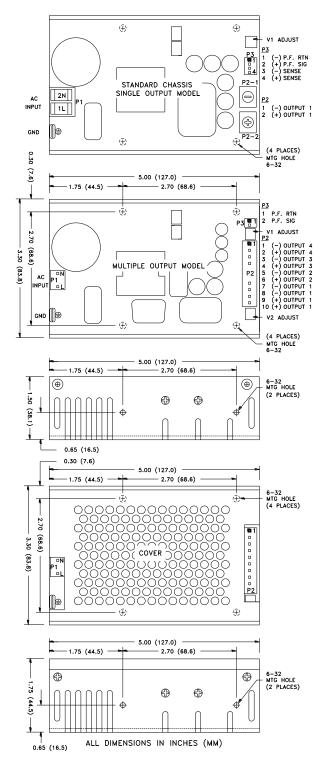
I/O - Isolated Outputs TS - Terminal Strip

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



EMC SPECIFICATIONS	S (IEC 60601-1-:	2:2014, 4 [™] ed./IEC 61000-6-2:20	05)
Electrostatic Discharge	EN 61000-4-2	±8KV contact / ±15KV air discharge	Α
Radiated Electromagnetic Field	EN 61000-4-3	80MHz-2.7GHz, 10V/m, 80% AM	Α
Electrical Fast Transients/Bursts	EN 61000-4-4	±2 KV, 5KHz/100KHz	Α
Surge Immunity	EN 61000-4-5	± 2 KV line to earth / ± 1 KV line to lin	e A
Conducted Immunity	EN 61000-4-6	0.15 to 80MHz, 10V, 80% AM	Α
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60 Hz.	Α
Voltage Dips	EN 61000-4-11	0% U _T , 0.5 cycles, 0-315° 100/240	/ A/A
		0% U _T , 1 cycles, 0° 100/240	/ A/A
		40% U _T , 10/12 cycles, 0° 100/240	/ B/A
		70% U _T , 25/30 cycles, 0° 100/240	/ B/A
Voltage Interruptions	EN 61000-4-11	0% U _T , 300 cycles, 0° 100/240	/ B/B
Radiated Emissions	EN 55011/32	Class B	
Conducted Emissions	EN 55011/32	Class B	
Voltage Fluctuations/Flicker	EN 61000-3-3	Compliant	

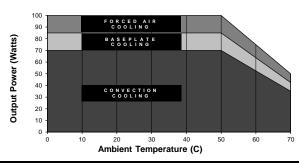
SRW/SRP-100 SERIES MECHANICAL SPECIFICATIONS



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 st 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.
- 13. 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.

