FEATURES:

- 2 Year Warranty
- Universal 85-264V Input
- One to Four Outputs
- 0-70°C Operating Temperature
- Compact 2.5" x 4.25" x 1.2" Size IEC 60601-1 3rd ed. Medical Cert.
 - IEC 62368-1 2nd ed. Certification
 - IEC 60601-1-2 4th ed. EMC
 - Class B Emissions per EN55011/32
 - RoHS Compliant
 - Optional Chassis/Cover





CHASSIS/COVER

OPEN FRAME

SAFETY SPECIFICATIONS



Underwriters Laboratories File E137708/E140259

UL 62368-1:2014, 2nd Edition CAN/CSA-C22.2 No. 62368-1-14, 2^{nd} Edition AAMI/ANSI ES60601-1:2005/(R) 2012(R)2021 CAN/CSA-C22.2 No. 60601-1:2014:2022



CB Reports/Certificates (including National and Group Deviations)

IEC 62368-1:2014, 2nd Edition IEC 60601-1:2005/A1:2012



EN 62368-1:2014, 2nd Edition TUV SUD America

EN 60601-1:2006/A1:2013



Low Voltage Directive RoHS Directive (Recast) (2014/35/EU of February 2014) (2015/863/EU of March 2015)



Electrical Equipment (Safety) Regulations 2016 SI No. 1101

Restriction of the Use of Certain Hazardous Substances in EEE Regulations 2012 SI No. 3032 + 2019 SI No.492

MODEL LISTING

MODEL NO.	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4
SRP-40A-4001	+3.3V/5A	+5V/3A	+12V/0.7A	-12V/0.7A
SRP-40A-4002	+5V/5A	+3.3V/3A	+12V/0.7A	-12V/0.7A
SRP-40A-4003	+5V/5A	-5V/3A	+12V/0.7A	-12V/0.7A
SRP-40A-4004	+5V/5A	-5V/3A	+15V/0.7A	-15V/0.7A
SRP-40A-4005	+5V/5A	+24V/1.5A	+12V/0.7A	-12V/0.7A
SRP-40A-4006	+5V/5A	+24V/1.5A	+15V/0.7A	-15V/0.7A
SRP-40A-4007	+3.3V/3.1A	+5V/1.25A	-24V/.27A	-51.6V/.25A
SRP-40A-3001	+5V/5A	+12V/2A	-12V/0.7A	
SRP-40A-3002	+5V/5A	+15V/2A	-15V/0.7A	
SRP-40A-3003	+24V/1.5A		+15V/0.7A	-15V/0.7A
SRP-40A-3004	+14.5V/1.5A	-14.5V/1.5A	+5V/1A	
SRP-40A-2001	+5V/5A	+24V/1.5A		<u> </u>
SRP-40A-2002	+5V/5A	+12V/3A		
SRP-40A-2003	+5V/5A	-5V/4A		
SRP-40A-2004	+12V/3A	-12V/3A		
SRP-40A-2005	+15V/2.5A	-15V/2A		
SRP-40A-2006	+30V/1.2A		-15V/0.7A	
SRP-40A-2007	+3.3V/5A		+5V/0.7A	
SRP-40A-2008	+6V/5A	+9V/1A		
SRP-40A-2009	+30V/0.5A	-30V/0.5A		
SRP-40A-1001	3.3V/10A			
SRP-40A-1002	5V/8A			
SRP-40A-1003	12V/3.33A			
SRP-40A-1004	15V/2.67A			
SRP-40A-1005	24V/1.67A			
SRP-40A-1006	48V/0.83A			
SRP-40A-1007	9V/4.45A			
SRP-40A-1008	12V/3.33A			

ORDERING INFORMATION

Consult factory for alternate output configurations, positive, negative or floating Output 2. Specify DC Input when ordering SRP-40A-3003 only.

Please specify the following optional features when ordering:

CH - Chassis I/O – Isolated Outputs WT - Low Temperature Turn On

CO - Cover TS - Terminal Strip

	SRP-4	IOA		
OUT	PUT SPECIF	ICATIO	NS	
Total Output Power at 50°C(1)	40W (33W, 100			
(See Derating Chart)	•	,		
Output Voltage Centering	Output 1:	± 0.25%	(All outputs	
	Output 2:	$\pm5.0\%$	at 50% load)	
	Output 3:	$\pm3.0\%$		
	Output 4:	$\pm3.0\%$		
Output Voltage Adjust Range	Output 1:	95 - 105%	/ 0	
oad Regulation	Output 1:	0.5%	(10-100% load change	
<u> </u>	Output 2:	5.0%	(30-100% load change	
	(2003,4002)	7.0%	(30-100% load change	
	Output 3:	0.5%	(10-100% load change	
	Output 4:	0.5%	(10-100% load change	
Source Regulation	Outputs 1 – 4:	0.5%		
Cross Regulation	Output 2:	5.0%	(Output 1	
	Output 3:	0.5%	varied 50-100%)	
	Output 4:	0.5%		
Output Noise	Outputs 1 - 4:	1.0%		
Turn on Overshoot	None			
Transient Response	Outputs 1 – 4			
Voltage Deviation	5.0%			
Recovery Time	2 ms			
Load Change	50% to 100%			
Output Overvoltage Protection	Output 1:	110% to 1		
Output Overcurrent Protection	Outputs 3 & 4:	110% Min.		
Output Overpower Protection	Outputs 1 & 2:	110% Min.		
	Outputs cycle o			
Hold Up Time	10 ms min., 40	W Output, 12	20V Input	
Start Up Time	1 Second			
	PUT SPECIFI	CATION	S	
Protection Class				
Source Voltage	85 – 264 Volts A	AC		
Frequency Range	47 – 63 Hz			
Source Current				
True RMS	1A at 85V Input			
Peak Inrush	30 A			
Efficiency	0.66 - 0.80 (Var	ies by mode	1)	
ENVIRON	IMENTAL SF	PECIFIC	ATIONS	
Ambient Operating	0° C to + 70° C			
Temperature Range	Derating: See Power Rating Chart			
Ambient Storage Temp. Range	- 40° C to + 85°	C		
Temperature Coefficient	Outputs 1 – 4:	0.029		
	3,000m ASL – 0	Operating - I	Medical 60601-1	
Altitude	5,000m ASL - 0	Dperating – I	TE/AV - 62368-1	
	12,192m ASL -	Non-Operat	ing	
GENI	ERAL SPECI			
Means of Protection				
Primary to Secondary	ary 2MOPP (Means of Patient Prote		Protection)	
Primary to Ground		1MOPP (Means of Patient Protection)		
Secondary to Ground	Operational Insu	ulation(Cons	ult factory for 1MOPP)	
Dielectric Strength _(8, 9)			,	
Reinforced Insulation	5656 VDC, Prim	nary to Seco	ndary	
Basic Insulation	2121 VDC, Prim	nary to Grou	nd	
Operational Insulation	707 VDC, Sec	ondary to Gr	ound	
Leakage Current				
Earth Leakage	<300µA NC, <1	000μA SFC		

Lounage ourront		
Earth Leakage	<300µA NC, <1	000μA SFC
Touch Current	<100µA NC, <5	00μA SFC
Mean-Time Between Failures	100,000 Hours r	min., MIL-HDBK-217F, 25° C, GB
Weight	0.49 Lbs. Op	en Frame
		assis and Cover
EMCSPECIFICATIONS	S (IEC 60601-1-	2:2014, 4 TH ED./IEC 61000-6-2:2005)
Electrostatic Discharge	EN 61000-4-2	±8KV contact / ±15KV air discharge 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 line to line A
Conducted Immunity	EN 61000-4-6	0.15 to 80MHz, 10V, 80% AM A
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60 Hz. A
Voltage Dips	EN 61000-4-11	0% U _T , 0.5 cycles, 0-315° 100/240V A/A
		0% U _T , 1 cycles, 0° 100/240V A/A
		40% U _T , 10/12 cycles, 0° 100/240V B/A
		70% U _T , 25/30 cycles, 0° 100/240V B/A
Voltage Interruptions	EN 61000-4-11	0% U _T , 300 cycles, 0° 100/240V B/B
Radiated Emissions	EN 55011/32	Class B
Conducted Emissions	EN 55011/32	Class B

All specifications are maximum at 25°C/40W unless otherwise stated, may vary by model and are subject to change without notice.

Class A

Compliant

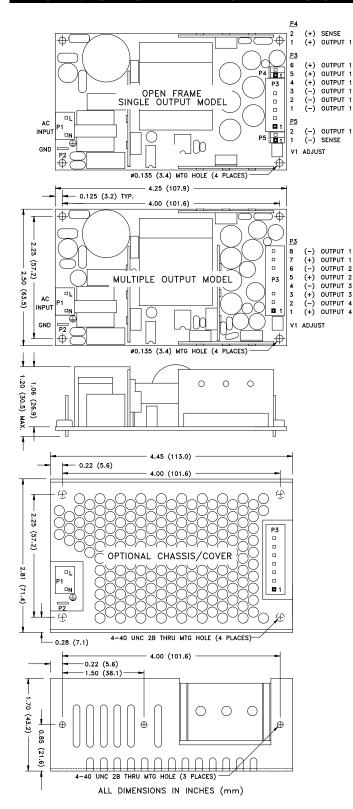
EN 61000-3-2

EN 61000-3-3

Harmonic Current Emissions

Voltage Fluctuations/Flicker

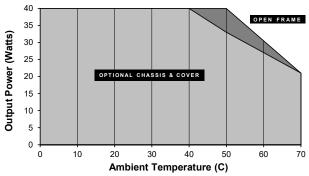
SRP-40A SERIES MECHANICAL SPECIFICATIONS



APPLICATIONS INFORMATION

- Each output can deliver its rated current but Total Output Power must not exceed 40W (33W, 1001).
- 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 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.
- 10. 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.
- Maximum screw penetration into bottom chassis mounting holes is 0.100 inches.
 Maximum screw penetration into side chassis mounting holes is 0.250 inches.
- 12. 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.
- Maximum Ambient Temperature is reduced to 40°C with optional Chassis and Cover. See chart below.

MAXIMUM OUTPUT POWER vs. AMBIENT TEMPERATURE



		CONNECTOR SPECIFICATIONS
P1	AC Input	0.156 friction lock header mates with Tyco 640250-3 or equivalent crimp terminal housing with Tyco 3-640706-1 or equivalent crimp terminal.
P3	DC Output (Single)	0.156 friction lock header mates with Tyco 770849-6 or equivalent crimp terminal housing with Tyco 3-640707-1 or equivalent crimp terminal.
P3	DC Output (Multiple)	0.156 friction lock header mates with Tyco 770849-8 or equivalent crimp terminal housing with Tyco 3-640707-1 or equivalent crimp terminal.
P4,P5	Sense	0.100 friction lock header mates with Molex 22-01-2027 or equivalent crimp terminal housing with Molex 08-50-0114 or equivalent crimp terminal.
G	Ground	0.187 quick disconnect terminal.