40 WATTS

SINGLE/MULTI OUTPUT AC-DC

FEATURES:

- Compact 2.5" x 4.25" x 1.2" Size IEC 60601-1 3rd ed. Medical Cert. 2 Year Warranty ٠
- Universal 85-264V Input
- One to Four Outputs
- 0-70°C Operating Temperature
- IEC 62368-1 2nd ed. Certification • IEC 60601-1-2 4th ed. EMC
 - Class B Emissions per EN55011/32
- RoHS Compliant
 - **Optional Chassis/Cover**



	SAFE		62368-1:2014, 2nd	d Edition	
CFU us Underwriters Laboratories File E137708/E140259			CAN/CSA-C22.2 No. 62368-1-14 AAMI/ANSI ES60601-1:2005/(R) 2012		
	E137708/E140259		N/CSA-C22.2 No. (
TECEE CB	Reports/Certificates	(including all IE)	C 62368-1:2014, 2n	d Edition	
	tional and Group De	viations) IE	C 60601-1:2005/A1	:2012	
TU	V SUD America		1 62368-1:2014, 2nd		
SUD		EN	1 60601-1:2006/A1:	2013	
	v Voltage Directive HS Directive (Recas		(2014/35/EU of February 2014)		
	`	, (015/863/EU of March 2015)		
	ctrical Equipment (S	., .			
	striction of the Use of 12 SI No. 3032 + 20		ous Substances in E	EE Regulations	
20		MODEL LIS	TING		
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			
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-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				

12V/3.33A **ORDERING INFORMATION**

Consult factory for alternate output configurations. Consult factory for 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 CO - Cover TS - Terminal Strip

48V/0.83A

9V/4.45A

RP-40 OUTPUT SPECIFICATIONS Total Output Power at 50°C(1) 40W (33W, 1001) (See Derating Chart) ± 0.25% Output Voltage Centering Output 1: (All outputs at 50% load) Output 2: ± 5.0% Output 3: $\pm 3.0\%$ Output 4: ± 3.0% Output Voltage Adjust Range 95 - 105% Output 1: Load Regulation Output 1: 0.5% (10-100% load change) (30-100% load change) 5.0% Output 2. (2003,4002) 7.0% (30-100% load change) Output 3: 0.5% (10-100% load change) (10-100% load change) Output 4: 0.5% Source Regulation Outputs 1-4: 0.5% Cross Regulation 5.0% (Output 1 Output 2: Output 3. 0.5% varied 50-100%) 0.5% Output 4: Output Noise Outputs 1 - 4 1.0% Turn on Overshoot None Transient Response Outputs 1 - 4 Voltage Deviation 5.0% Recovery Time 2 ms 50% to 100% Load Change Output Overvoltage Protection Output 1: 110% to 150% Output Overcurrent Protection 110% Min. Outputs 3 & 4: Output Overpower Protection Outputs 1 & 2: 110% Min. Outputs cycle on/off, auto recovery 10 ms min., 40 W Output, 120V Input Hold Up Time Start Up Time 1 Second INPUT SPECIFICATIONS Protection Class Source Voltage 85 - 264 Volts AC 47 – 63 Hz Frequency Range Source Current True RMS 1A at 85V Input Peak Inrush 30 A Efficiency 0.66 - 0.80 (Varies by model) **ENVIRONMENTAL SPECIFICATIONS** 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 0.02%/°C Outputs 1 - 4: **GENERAL SPECIFICATIONS** Means of Protection Primary to Secondary 2MOPP (Means of Patient Protection) Primary to Ground 1MOPP (Means of Patient Protection) Operational Insulation(Consult factory for 1MOPP) Secondary to Ground Dielectric Strength(8, 9) Reinforced Insulation 5656 VDC, Primary to Secondary 2121 VDC, Primary to Ground Basic Insulation **Operational Insulation** 707 VDC, Secondary to Ground Leakage Current Earth Leakage <300µA NC, <1000µA SFC <100µA NC, <500µA SFC Touch Current 100,000 Hours min., MIL-HDBK-217F, 25° C, GB Mean-Time Between Failures Weight 0.49 Lbs. Open Frame 0.85 Lbs. Chassis and Cover **EMC SPECIFICATIONS** (IEC 60601-1-2:2014, 4TH 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 А 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 100/240V A/A Voltage Dips EN 61000-4-11 0% UT, 0.5 cycles, 0-315°

			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	
Harmonic Current Emissions	EN 61000-3-2	Class A	
Valtaria Elizational Elization	ENL 04000 0.0	Compliant	

Voltage Fluctuations/Flicker EN 61000-3-3 Compliant

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

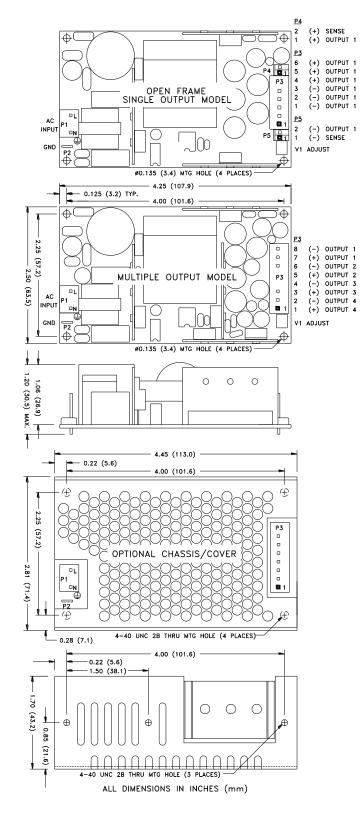


SRP-40A-1006

SRP-40A-1007

SRP-40A-1008

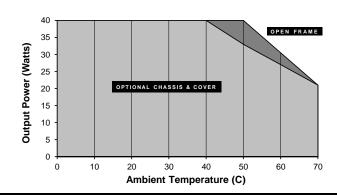
SRP-40A SERIES MECHANICAL SPECIFICATIONS



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 60601-11 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.
- Maximum screw penetration into bottom chassis mounting holes is 0.100 inches. Maximum screw penetration into side chassis mounting holes is 0.250 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.
- 14. 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	0.156 friction lock header mates with Tyco 770849-6 or
	(Single)	equivalent crimp terminal housing with Tyco 3-640707-1 or
		equivalent crimp terminal.
P3	DC Output	0.156 friction lock header mates with Tyco 770849-8 or
	(Multiple)	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 guick disconnect terminal.