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 UL 62368-1:2014, 2nd Edition Underwriters Laboratories File E137708/E140259 CAN/CSA-C22.2 No. 62368-1-14 AAMI/ANSI ES60601-1:2005/(R) 2012 CAN/CSA-C22.2 No. 60601-1:2014 CB Reports/Certificates (including all IEC 62368-1:2014, 2nd Edition IEC 60601-1:2005/A1:2012 National and Group Deviations) EN 62368-1:2014, 2nd Edition TUV SUD America EN 60601-1:2006/A1:2013 Low Voltage Directive (2014/35/EU of February 2014) RoHS Directive (Recast) (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		
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

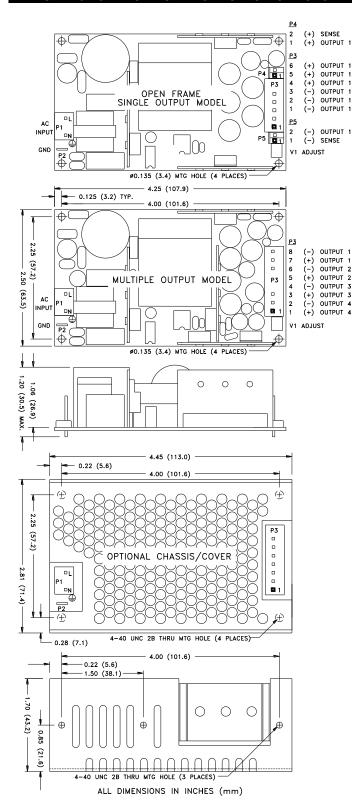
Consult factory for alternate output configurations. Consult factory for positive, negative or floating Output 2. Specify DC Input when ordering SRP-40A-3003 only. Please specify the following optional features when ordering:

I/O - Isolated Outputs CH - Chassis CO - Cover TS - Terminal Strip

•	SIXF		
	PUT SPECIF		NS
Total Output Power at 50°C ₍₁₎ (See Derating Chart)	40W (33W, 100)1)	
Output Voltage Centering	Output 1:	± 0.25%	(All outputs
Output voltage Centening	Output 2:	+ 5.0%	at 50% load)
	Output 3:	± 3.0%	at 50 % load)
	Output 4:		
Output Voltage Adjust Dange	Output 1:	± 3.0% 95 - 105%	,
Output Voltage Adjust Range Load Regulation	Output 1:	0.5%	(10-100% load change)
Load Regulation	Output 1:	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%	(10 100% load change)
Cross Regulation	Output 2:	5.0%	(Output 1
Closs regulation	Output 3:	0.5%	varied 50-100%)
	Output 4:	0.5%	varied 60 10070)
Output Noise	Outputs 1 - 4:	1.0%	
Turn on Overshoot	None	1.0 /0	
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 15	50%
Output Overcurrent Protection	Outputs 3 & 4:	110% to 10	
Output Overcoment Protection	Outputs 1 & 2:	110 % Min.	
outhar overhower i intertion	Outputs 1 & 2.		
Hold Up Time	10 ms min., 40		
Start Up Time	1 Second	vv Output, 12	LOV IIIput
	UT SPECIFI	CATION	9
	UI SPECIFI	CATION	S
Protection Class	05 004 \/- #-	10	
Source Voltage	85 – 264 Volts A	AC .	
Frequency Range	47 – 63 Hz		
Source Current	44 (05)//		
True RMS	1A at 85V Input		
Peak Inrush	30 A	h	A
Efficiency	0.66 - 0.80 (Var		
	IMENTAL SE		ATIONS
Ambient Operating	0° C to + 70° C		
Temperature Range	Derating: See P		Chart
Ambient Storage Temp. Range	- 40° C to + 85°		
Temperature Coefficient	Outputs 1 – 4:	0.02%	
	3,000m ASL - 0	Operating - N	Medical 60601-1
Altitude	5,000m ASL - 0	Operating - I	TE/AV – 62368-1
	12,192m ASL -	Non-Operat	ing
GENE	ERAL SPECI		
Means of Protection			
Primary to Secondary	2MOPP (Means	of Patient P	rotection)
Primary to Ground	1MOPP (Means		
Secondary to Ground			ult factory for 1MOPP)
Dielectric Strength _(8, 9)		, 3000	,
Reinforced Insulation	5656 VDC, Prim	nary to Secon	ndarv
Basic Insulation	2121 VDC, Prin		
Operational Insulation	707 VDC, Sec		
Leakage Current	707 420,000	oridary to Of	u
Earth Leakage	<300µA NC, <1	000HA SEC	
Touch Current	<100µA NC, <1		
Mean-Time Between Failures			DBK-217F, 25° C, GB
		oen Frame	DBR-217F, 25 C, GB
Weight			over
EMC CDECIEIO A TION		assis and Co	
EMC SPECIFICATION			
Electrostatic Discharge	EN 61000-4-2		tact / ±15KV air discharge
Radiated Electromagnetic Field	EN 61000-4-3		7GHz, 10V/m, 80% AM
Electrical Fast Transients/Bursts	EN 61000-4-4	±2 KV, 5k	(Hz/100KHz
Surge Immunity	EN 61000-4-5		e to earth / ±1 KV line to line
Conducted Immunity	EN 61000-4-6		MHz, 10V, 80% AM
Magnetic Field Immunity	EN 61000-4-8	30A/m, 60	
Voltage Dips	EN 61000-4-11		5 cycles, 0-315° 100/240V A/
Totago Dipo	LIT 0 1000-4-11	0 % U _T , 0.	
		40% H- 1	10/12 cycles, 0° 100/240V B/
			25/30 cycles, 0° 100/240V B/
Voltage Interruptions	EN 61000-4-11		00 cycles, 0° 100/240V B/I
			00 cycles, 0 100/240V B/I
Radiated Emissions	EN 55011/32	Class B	
Conducted Emissions	EN 55011/32	Class B	
Harmonic Current Emissions	EN 61000-3-2	Class A	
Voltage Fluctuations/Flicker	EN 61000-3-3	Complian	t

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

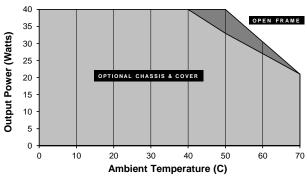
SRP-40A SERIES MECHANICAL SPECIFICATIONS



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.
- 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	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 quick disconnect terminal.		