











Size: 9.2in x 4.3in x 2.5in (233mm x 108mm x 63.5mm)

FEATURES

- Optional Top Cover Available
- Universal AC Input/Full Range
- Optional N+1 Active Current Sharing
- Peak Power 900W within 500µS duty duration
- Power Factor Corrected to EN61000-3-2 Class D
- High Power Density (Max. 9.1 Watts per cubic inch)
- Approved to UL/CUL/TUV/CB/CE & Class B Emissions
- · Enclosed with Built-in Fan Mechanical Options

DESCRIPTION

The PSRL5017R6 series of AC DC power supplies provides up to 500W of output power. All models have a single output and a universal input voltage range. Models are available as enclosed with built-in Fan (Type E). Output connectors are Howder terminal block design. Optional Mating Molex outputs are also available. Please contact factory for ordering details.

MODEL SELECTION TABLE								
Model Number	Output Voltage Range	Output Current	Ripple & Noise	Preset Voltage	Output Power	Regulation		
PSRL5017Rx6-03(I)	2-3.3VDC	90A	75mV	3.3VDC	297W	±1%		
PSRL5017Rx6-05(I)	5-6VDC	90A	75mV	5VDC	450W	±1%		
PSRL5017Rx6-12(I)	12-15VDC	50A	±1%	12VDC	600W	±1%		
PSRL5017Rx6-16(I)	16-21VDC	37.5A	±1%	18VDC	600W	±1%		
PSRL5017Rx6-24(I)	22-30VDC	27.27A	±1%	24VDC	600W	±1%		
PSRL5017Rx6-36(I)	31-47VDC	19.35A	±1%	36VDC	600W	±1%		
PSRL5017Rx6-48(I)	48-56VDC	12.5A	±1%	48VDC	600W	±1%		



		oltage, and Maximum Output Current unles ifications based on technological advances					
SPECIFICATION	TEST CON	IDITIONS	Min	Тур	Max	Unit	
NPUT SPECIFICATIONS	Full Dames (DCDI FOAZD) (0.000M Conices 4	00.004\/A.C=\lank	00		004	\/A C	
nput Voltage Range	Full Range (PSRL5017Rx8 800W Series: 1	80-264VAC only)	90		264	VAC	
nput Frequency	@220\/ACith FII.I. and Cald Chart		47		63	Hz	
nrush Current	@230VAC with Full Load Cold Start				70	Α	
_eakage Current	@240VAC			40	3.5	mA	
nput Current	@90VAC and Full Load			10		A	
Remote ON/OFF	Designated as RSW on CN3, requires a low	v signai to innibit output					
OUTPUT SPECIFICATIONS				· · · ·	F_61_		
Output Voltage	With Airflow.			See ⁻		10/	
Output Power Range			ı E		600	W %	
Output Adjustability	Output user adjustable		±5				
Total Regulation				±1	F - I - I -	%	
Output Current	Darleta wash			See			
Ripple and Noise	Peak to peak	- 500/		See ⁻	able		
Fransient Response	Returns to within 1% in less than 2.5ms for	a 50% load change and the peak					
Late the Time a	transient does not excess 5%		00				
Hold-Up Time	@80% of Full Load.	ralla na	20			ms	
Overshoot	Turn-On & Off overshoot <5% over normal	voitage			4	0	
Turn On Delay	@120VAC				1	Sec	
Remote Sense	Designated as RS+ and RS- on CN3. Volta (Not available for current sharing models)						
PROTECTION			ı				
Short Circuit Protection	Trip without damage and auto-recovery.						
Over-Temperature Protection	Unit protected of excessive operating ambie	ent 85°C and automatic recovery.					
Over Voltage Protection	Unit latching down when output voltage exceeds 130% and recycle AC input to reset.						
Over-Power Protection	Fold back mode 110-140% and auto-recovery.						
Input Voltage Protection	Power shut down under 80 ±5VAC, and rec	overed over 86VAC					
Input Fusing Protection	A T10A/250V fuse inserted in primary						
ENVIRONMENTAL SPECIFIC	CATIONS						
Operating Temperature	Ambient, De-Rating at 2.5% per degree from	m 50°C to 70°C	0		+70	°C	
Storage Temperature			-20		85	°C	
Operating Humidity	Non-Condensing		5		90	% R	
Storage Humidity	Non-Condensing		5		95	% R	
Vibration	Acceleration 7.35 m/(s x s) on X,Y, and Z axis		5		50	Hz	
Cooling	Self-cooled by built-in fan.						
MTBF	(according to MIL-HBK-217F) @30°C		150,000		Hr		
GENERAL SPECIFICATIONS							
		3.3V		70			
		5V		75		١	
Efficiency	@230VAC and Full Load	12V		80		<u></u> %	
		All other Outputs	83				
	1500 VAC input line to chassis (10mA DC o	•					
Withstand Voltage	primary and secondary windings. Primary to						
Burn-In	For one hour @ 230VAC with Full Load	3 coro 1000 v. to	40	45	50	°C	
PFC	Active power factor correction meets EN610	000-3-2 Class D		40	00		
Power Good	Designated as PG on the CN3 and TTL high 100-500ms after regulation. It goes low at least 1ms before loss of regulation for Power on Reset signal.						
	Apply 25A from ground pin of the three prong plug to the far most earth. Max						
Grounding Test	allowable resistance is 0.1 ohm.	ig plug to the fai most earth. Max					
	Designated as CSH on the CN3, optional si	ngle wired for forced current charing					
Current Sharing	function and parallel up to 4 units within 10°						
<u> </u>							
Current Monitor	Designated as CMN on the CN3 is a 0.5V to 3VDC output voltage to represent 0% to 100% output current.						
_ED Display	Bi-Color LED1 emit Green for Power On an enabled or RSW is applied to a low signal	d emit Orange when protection is					
PHYSICAL SPECIFICATIONS							
Veight				3.19lbs (14	50 grams)	
Dimensions (L x W x H)				3 2.5in (23			
				,			
	RISTICS						
SAFETY & EMC CHARACTE		A C22.2 No. 60950-1-03,TUV EN60950-1					
SAFETY & EMC CHARACTE Safety Regulations	UL60950-1 ⁽⁷⁾ , CS CE Mark (LVD) EN61000-3-2-3	A C22.2 No. 60950-1-03,TUV EN60950-1 3, IEC61000-4 Series Regulations and CB CC part15, CISPR 22 Class B, Conducted					

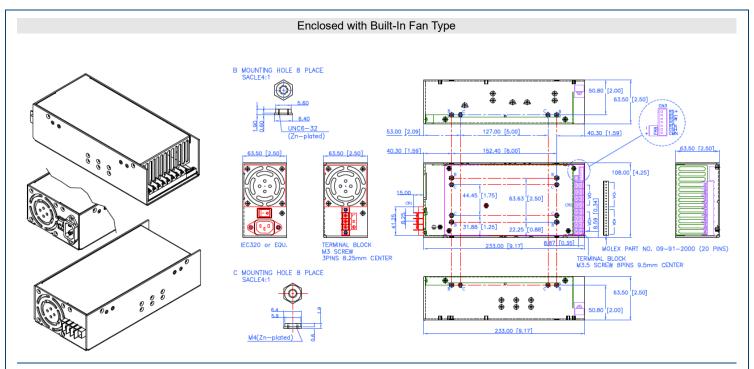


NOTES

- (1) The PSRL5017R6 Series is designated as PSRL5017Rxw-yz where x=E (Enclosed with built-in fan type), w=6 for output power from 264W-500W, y= 03,05,12,16,36, or 48 for output voltage, and z can be blank or I where I denotes forced current sharing option (output with internal OR-ring diode). See PSRL5017R-I Series for forced current sharing.
- (2) All output ranges are covered in agency certifications and preset voltage will be set as standard models. If any request is not preset output, then please contact us in advance.
- (3) Ripple & Noise are measured from 10KHZ to 20 MHz bandwidth at output with parallel 0.1µF ceramic and 22µF electrolytic capacitors.
- (4) Providing peak power to 900W within 500µS for all models, longer duty duration need contact with manufacturer.
- (5) 1% minimum load is required to maintain the ripple and regulation.
- (6) Output is fully isolated.
- (7) This product is Listed to applicable standards and requirements by UL.

*Due to advances in technology, specifications subject to change without notice.

MECHANICAL DRAWINGS



I/O Connector Pin Assignment

AC Input Connector (CN1):

IEC320 or equivalent Snap-in mounting type or DINKLE Terminal Block Part No. DT-35-A02W-03 (3 pin)

Output Connector (CN2):

Mating Molex Part No. 09-91-2000 (20 Pin) or Howder Terminal Bloack Part No. HD-121-8P (8 pin)

Output Pin Assignment:

Output Pin Connetion				
	Howder	Molex		
Vo+	Pins 1-4	Pins 1-10		
Vo-	Pins 5-8	Pins 11-20		

Logic Signal Connectors (CN3):

Mating JST XHP-7 or equivalent (CHYAO SHIUNN JS-2001-07).

Fan Drive:

12VDC/500mA Mating JST XHP-2 or equivalent (CHYAO SHIUNN JS-2001-02

Mounting Inserts:

6-32, M4 4 Places individually with maximum penetration 0.2 inch on bottom side and 0.25 inch on both sides.



COMPANY INFORMATION -

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact Wall Industries for further information:

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