

Open Frame (Suffix "-O")



Size: 4.00 x 2.00 x 1.14 inches

U-Chassis (Suffix "-U")



Size: 4.12 x 2.24 x 1.38 inches

FEATURES

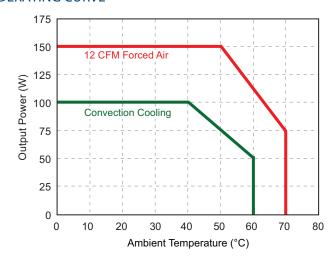
- RoHS Compliant
- Single Outputs
- PF > 0.9 at 115/230VAC
- 100 Watts with Convection Cooling
- 150 Watts with Forced Air Cooling
- 90~264 VAC Input Voltage Range
- MTBF > 100,000 Hours
- High Efficiency up to 85%
- Over Voltage, Over Load, and Short Circuit Protection
- UL60950-1, Nemko EN60950-1, & CB IEC60950-1 Safety Approvals
- 100% Burn-in and Hi-pot Tested
- Open Frame and U-Chassis Mechanical Options Available

DESCRIPTION

The PSPW150 series of AC/DC power supplies provides 100 Watts of output power with convection cooling and 150 Watts with 12CFM forced airflow. This series consists of 12V, 15V, 19V, 24V, 28V, and 48VDC single output models with a 90-264VAC full range input which enables them to be used anywhere in the world. These supplies also feature a high efficiency up to 85% and a power factor > 0.9 at 115/230VAC. These supplies are also protected against short circuit, over voltage, and over load conditions. The PSPW150 series has UL60950-1, CSA-C22.2 NO.950-1, Nemko EN60950-1, and CB IEC60950-1 safety approvals. This series is also CE marked and meets EN55022 Class B, CISPR22 Class B, and FCC Part 15 Class B EMC standards. Both open frame and U-chassis mechanical options are available for this series.

MODEL SELECTION TABLE									
Model Number Inpu	Input Voltage	Output Voltage	Output Current		Output Power		Ripple & Noise	Output	Package Type
	put roitage		Convection	12 CFM Forced Air	Convection	12 CFM Forced Air	ppic a rioise	Regulation	. aciage Type
PSPW150B-1Y12-O	90 - 264 VAC	12 VDC	8.33A	12.5A	100W	150W	150mVp-p	±3%	_
PSPW150B-1Y15-O		15 VDC	6.67A	10A	100W	150W	150mVp-p	±3%	
PSPW150B-1Y19-O		19 VDC	5.26A	7.89A	100W	150W	190mVp-p	±3%	Onan Frama
PSPW150B-1Y24-O		24 VDC	4.16A	6.25A	100W	150W	240mVp-p	±3%	Open Frame
PSPW150B-1Y28-O		28 VDC	2.77A	4.16A	100W	150W	300mVp-p	±2%	
PSPW150B-1Y48-O		48 VDC	2.08A	3.12A	100W	150W	300mVp-p	±2%	
PSPW150B-1Y12-U		12 VDC	8.33A	12.5A	100W	150W	150mVp-p	±3%	
PSPW150B-1Y15-U		15 VDC	6.67A	10A	100W	150W	150mVp-p	±3%	
PSPW150B-1Y19-U	90 - 264 VAC	19 VDC	5.26A	7.89A	100W	150W	190mVp-p	±3%	U-Chassis
PSPW150B-1Y24-U		24 VDC	4.16A	6.25A	100W	150W	240mVp-p	±3%	U-Cliassis
PSPW150B-1Y28-U		28 VDC	2.77A	4.16A	100W	150W	300mVp-p	±2%	
PSPW150B-1Y48-U		48 VDC	2.08A	3.12A	100W	150W	300mVp-p	±2%	

DERATING CURVE



Convection Cooling:

0 to +60°C derating linearly 2.5% per °C from +41°C to +60°C

12CFM Forced Air:

0 to +70°C derating linearly 2.5% per °C from +51°C to +70°C

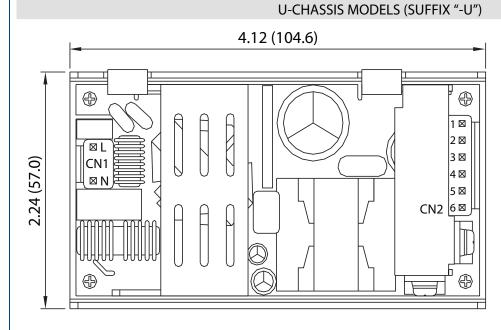
SPECIFICATIONS: PSPW150 SERIES

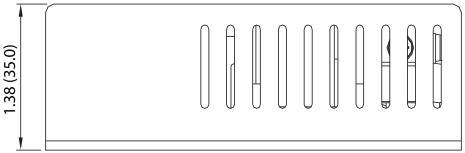
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

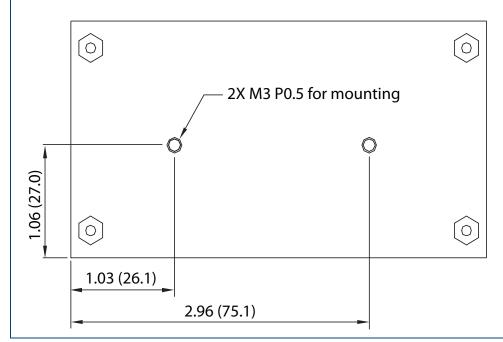
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit			
INPUT SPECIFICATIONS			<u>'</u>			<u>'</u>		
Input Voltage Range		90		264	VAC			
Input Frequency		47		63	Hz			
Input Current (rms)	115VAC and full load			2.5	Α			
	230VAC and full load			1.25				
In work Commons	115VAC, cold start, 25°C			40	Α			
Inrush Current	115VAC, cold start, 25°C			80				
Power Factor Correction	115/230VAC and full load							
OUTPUT SPECIFICATIONS								
Output Voltage				See	Гable			
Output Regulation				See	Гablе			
Outrout Dames	Convection cooling			100	W			
Output Power	With 12CFM forced air			150				
Output Current				See ⁻	Гable			
Minimum Load			0			%		
		12V output model		150		mVp-p		
		15V output model		150				
D: 1 0 N :	Measured at 20MHz limited bandwidth and	19V output model		190				
Ripple & Noise	with 0.1µF ceramic and 10µF electrolytic capacitors in parallel across the output	24V output model		240				
		28V output model		300				
		48V output model		300				
Hold-up Time	115VAC and full load		16			ms		
PROTECTION				<u>'</u>	<u>'</u>			
Over Voltage Protection				Automati	c recovery			
Over Load Protection	Automatic recovery		105		160	%		
Short Circuit Protection		,			Automatic recovery			
GENERAL SPECIFICATIONS								
Efficiency	115VAC and full load			85		%		
ENVIRONMENTAL SPECIFICAT	TIONS			!	!			
O .: T .	Convection cooling: 100W (with derating)	0		+60	°C			
Operating Temperature	12CFM forced air: 150W (with derating)	0		+70				
Storage Temperature Range	5		-10		+85	°C		
Humidity	Non-condensing		5		95	%		
MTBF	Full load, 25°C ambient temperature		100,000			hours		
PHYSICAL SPECIFICATIONS								
Weight	Open Frame Models (Suffix "-O")	7.27oz (206g)						
	U-Chassis Models (Suffix "-U")	9.70oz (275g)						
Dimensions (L. M. 11)	Open Frame Models (Suffix "-O") 4.00			.00 x 2.00 x 1.14 in (101.6 x 50.8 x 29.0 mm)				
Dimensions (L x W x H)	U-Chassis Models (Suffix "-U")	4.12 x 2.25 x 1.38 in (104.6 x 57.0 x 35.0 mm)						
SAFETY & EMC								
Safety Approvals		JL60950-1, CSA-C22.2	NO.950-1, N	Nemko EN6	0950-1, CB	IEC60950-1		
EMC Standards		EN55022 C	lass B, CISPR	22 Class B,	FCC Part 15	Class B, CE		



MECHANICAL DRAWING -







Unit: inches (mm)

CN1: INPUT CONNECTOR			
Pin No.	Function		
1	AC (N)		
2	AC (L)		

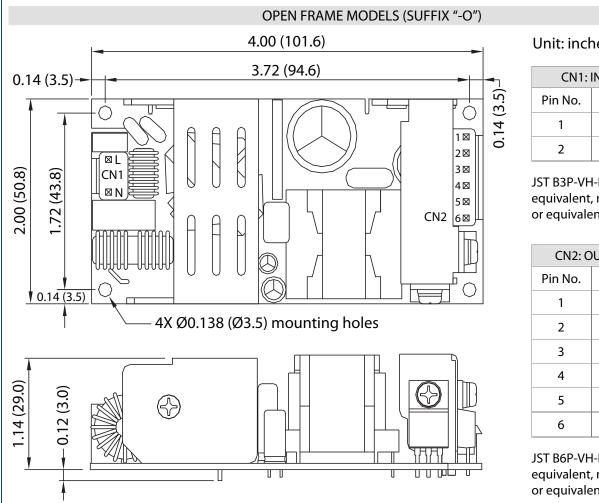
JST B3P-VH-B pitch: 7.92mm or equivalent, mates with JST VHR-3N or equivalent

CN2: OUTPUT CONNECTOR			
Pin No.	Function		
1	GND		
2	GND		
3	GND		
4	+Vo		
5	+Vo		
6	+Vo		

JST B6P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-6N or equivalent



MECHANICAL DRAWING



Unit: inches (mm)

CN1: INPUT CONNECTOR			
Pin No.	Function		
1	AC (N)		
2	AC (L)		

JST B3P-VH-B pitch: 7.92mm or equivalent, mates with JST VHR-3N or equivalent

CN2: OUTPUT CONNECTOR			
Pin No.	Function		
1	GND		
2	GND		
3	GND		
4	+Vo		
5	+Vo		
6	+Vo		

JST B6P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-6N or equivalent

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 ISO9001-2008 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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