PSHF150W-SMF SERIES

88~132 / 170~264VAC Input Selectable by Switch Up to 156 Watts Output Power 5, 7.5, 9, 12, 24, 27, & 36VDC Single Outputs AC/DC Switching Power Supplies





FEATURES

- RoHS Compliant
- ±10% Voltage Adjustment Range
- Free Air Convection
- 85~132/170~264VAC Input Selectable by Switch
- Short Circuit, Over Load, and Over Voltage Protection
- High Power Density

- Single Outputs
- Electrolytic Capacitors all 105°C
- 7.83" x 3.86" x 1.54" Enclosed Case
- Up to 156W Output Power
- 100% Full Load Burn-in Test
- UL60950, EN60950, GB4943, and CE Approvals

DESCRIPTION

The PSHF150W-SMF series of AC/DC power supplies offers up to 156W of output power in a 7.83" x 3.86" x 1.54" enclosed case. This series consists of 5, 12, 13.5, 15, 24, and 48VDC single output models with an input voltage range of $85\sim132/170\sim264$ VAC selectable by switch. These supplies have a $\pm10\%$ output adjustment range and are protected against short circuit, over load, and over voltage conditions. This series is RoHS compliant and has UL60950, EN60950, GB4943, and CE approvals.



SPECIFICATIONS: PSHF150W-SMF 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.

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SPECIFICATION	TEST CO	TEST CONDITIONS			Max	Unit		
INPUT SPECIFICATIONS								
Input Voltage Range	Selected by switch 85~132 / 170~264VAC			AC				
Input Current	Vin = 115VAC	·						
	Vin = 230VAC	Vin = 230VAC		1.8		A		
Inrush Current	Vin = 115VAC	G 11		20				
	Vin = 230VAC	Cold start		40		A		
Input Leakage Current	Vin = 230VAC			1	mA			
Input Frequency		47		63	Hz			
OUTPUT SPECIFICATIONS								
Output Voltage				See 7	Гable			
Voltage Adjustment Range			-10		+10	%		
	5VDC output model	-2		+2	0./			
Voltage Tolerance	Others	*			+1	%		
Line Regulation	Low line to high line at	t full load	-0.5		+0.5	%		
Load Regulation	0% to 100% of rated lo			0.5		%		
Output Current				See 7	Γable			
Output Power	See Table							
Ripple & Noise	See Note 1	See Note 1			See Table			
Rise Time	Full load					ms		
Hold-up Time	Full load		50		ms			
PROTECTION								
Over Load Protection	Shut off, re-power on t	110		130	%			
Over Voltage Protection	Shut off, re-power on t	115		150	%			
Short Circuit Protection	Shut off, re-power on to recover			ecover				
GENERAL SPECIFICATIONS								
Efficiency				See 7	 Гable			
,	Input to Output		3000					
Withstand Voltage	Input to PE	All for 1 minute	1500			VAC		
William Voluge	Output to PE		500					
ENVIRONMENTAL SPECIFICAT								
Operating Temperature	See derating curve		-20		+70	°C		
Operating Humidity	non-condensing				93	% RH		
Storage Temperature			-20 -20		+85	°C		
Storage Humidity	non-condensing	20		95	% RH			
Vibration		10~150Hz, 2G 10 min/1		nin each a				
Cooling	Free air convection							
MTBF	> 100,000 hours							
PHYSICAL SPECIFICATIONS					. ,			
Weight	1.5 lbs (660g)							
Dimensions (L x W x H)	7.83 x 3.86 x 1.54 inches (199 x 98 x 39 mm)							
SAFETY & EMC CHARACTERIS	STICS	, 135 116		(2				
Safety Standards UL60950 ⁽³⁾ , EN60950, GB4943								
EMC Standards GB9254, EN55022 Class B, EN55024, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11								
Divide Stationards SD/25 i, E1355022 Class D, E1355024, E1301000-3-2,5, E1301000-4-2,5,7,5,0,0,11								



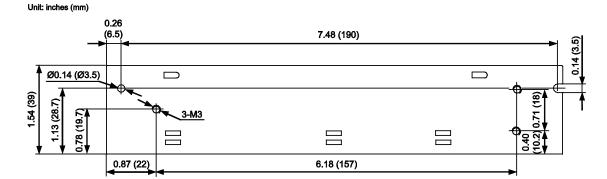
MODEL SELECTION TABLE								
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise (1)	Output Power	Efficiency		
PSHF150W-SMF-5		5 VDC	25.0 A	100mVp-p	125W	80%		
PSHF150W-SMF-12		12 VDC	12.5 A	120mVp-p	150W	84%		
PSHF150W-SMF-13.5	85~132 / 170~264 VAC (selectable by switch)	13.5 VDC	11.1 A	120mVp-p	150W	84%		
PSHF150W-SMF-15		15 VDC	10.0 A	120mVp-p	150W	84%		
PSHF150W-SMF-24		24 VDC	6.5 A	150mVp-p	156W	85%		
PSHF150W-SMF-48		48 VDC	3.1 A	150mVp-p	149W	87%		

NOTES

- 1. Ripple & noise is measured at 20MHz using a 12" twisted pair-wire terminated with 0.1μF and 47μF capacitors in parallel.
- 2. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
- 3. This product is Listed to applicable standards and requirements by UL.

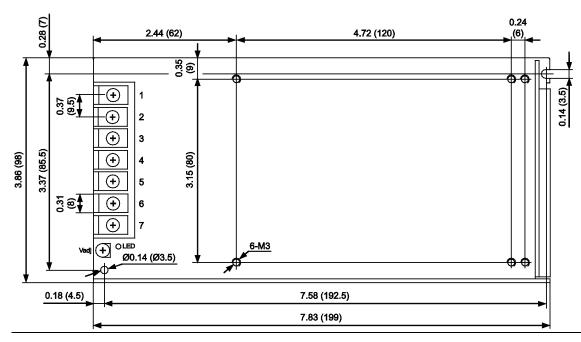
*Due to advances in technology, specifications subject to change without notice.

MECHANICAL DRAWING



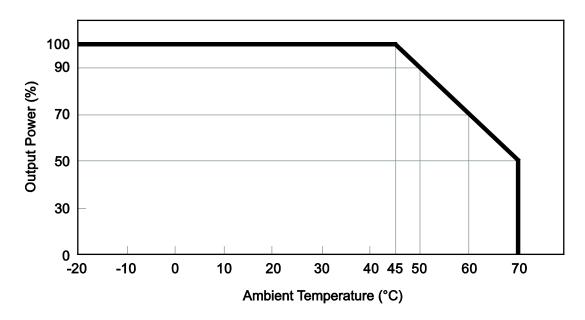
Pin	Assignment	
1	AC/L	
2	AC/N	
3	PE	
4,5	DC Output (-V)	
6,7	DC Output (+V)	

Length of assembly screw: 6mm max.





DERATING CURVE



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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