

## Wall Industries, Inc.

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# PSDRHF150 SERIES

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85~132 or 170~264VAC Input Voltage Range  
Up to 152 Watts Output Power  
12, 13.8, 15, 24, & 48VDC Single Outputs  
DIN Rail AC/DC Switching Power Supplies

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### FEATURES

- RoHS Compliant
- Single Outputs
- Short Circuit, Over Current, Over Voltage Protection
- 85~132 or 170~264VAC Input Voltage Ranges Available  
(Selectable by Jumper which is set at Factory)
- $\pm 10\%$  Voltage Adjustment Range
- High Reliability, Compact Design
- Up to 152W Output Power
- UL60950, UL508, EN60950, and CE Approvals
- Installed on DIN Rail TS35/7.5 or 15

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### DESCRIPTION

The PSDRHF150 series of DIN rail AC/DC power supplies offers up to 152W of output power in a 4.27" x 3.29" x 4.29" package. This series consists of 12, 13.8, 15, 24, and 48VDC single output models with an input voltage range of 85~132VAC or 170~264VAC (selectable by jumper which is set at factory). These supplies have a  $\pm 10\%$  output adjustment range and are protected against short circuit, over current, and over voltage conditions. This series is RoHS compliant and has UL60950, UL508, EN60950, and CE approvals.

**SPECIFICATIONS: PSDRHF150 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	Nom	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Ranges	Selectable by jumper which is set at factory	85 170		132 264	VAC
Inrush Current	Cold start; 230VAC		40		A
Input Frequency		47		63	Hz
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Output Voltage Adjustment Range		-10		+10	%
Line Regulation	Full load	-0.5		+0.5	%
Load Regulation			0.5		%
Output Current		See Table			
Output Power		See Table			
Ripple & Noise		See Table			
Rise Time	Full load		50		ms
Hold-up Time	Full load		20		ms
<b>PROTECTION</b>					
Over Current Protection	Delay shutdown	110		130	%
Over Voltage Protection		115		150	%
Short Circuit Protection		Yes			
<b>GENERAL SPECIFICATIONS</b>					
Efficiency		See Table			
Withstand Voltage	Input to Output	All for 1 minute	3000		VAC
	Input to FG		1500		
	Output to FG		500		
Leakage Current	At 230VAC			0.7	mA
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature		-10		+50	°C
Operating Humidity	non-condensing	20		93	% RH
Storage Temperature		-20		+85	°C
Storage Humidity	non-condensing	20		95	% RH
Cooling Method		Free air convection			
<b>PHYSICAL SPECIFICATIONS</b>					
Dimensions (L x W x H)		7.83 x 4.33 x 1.97 inches (199 x 110 x 50 mm)			
Connection		3P/6.35mm pitch 4P/6.35mm pitch, terminal block			
<b>SAFETY &amp; EMC CHARACTERISTICS</b>					
Safety Standards		UL508 <sup>(1)</sup> , UL60950 <sup>(1)</sup> , EN60950			
EMC Standards		EN55022 Class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			

**NOTES**

1. This product is Listed to applicable standards and requirements by UL.

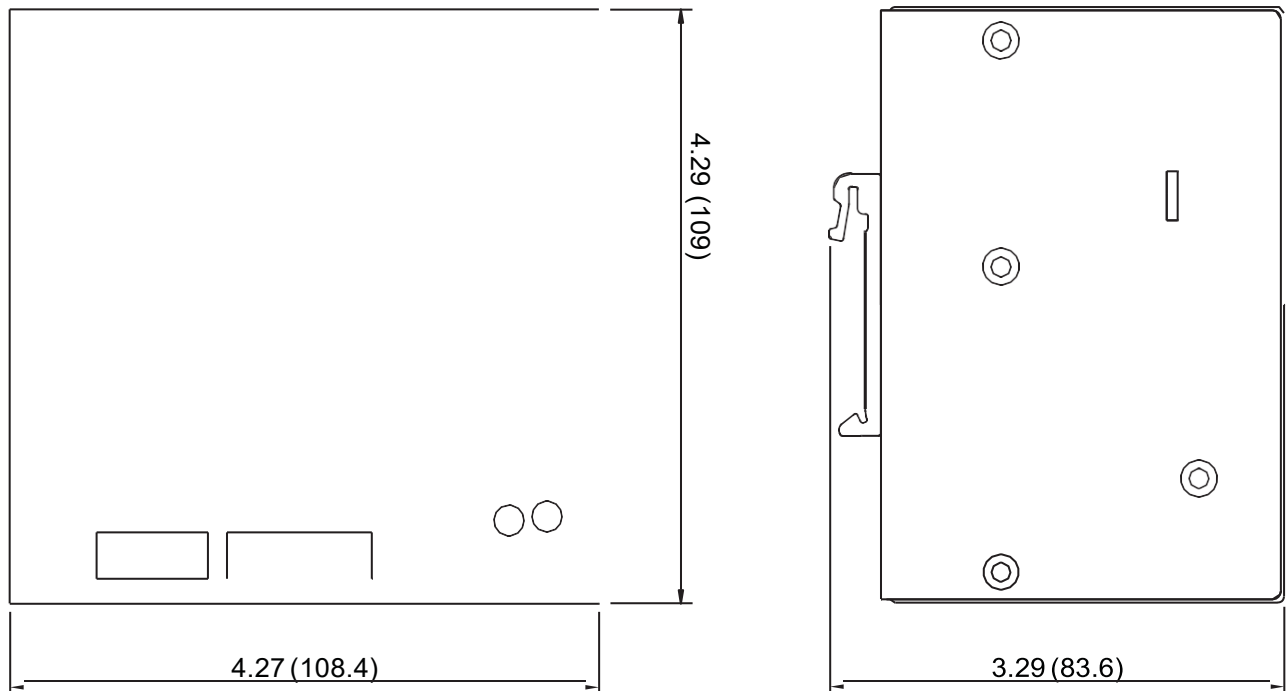
*\*Due to advances in technology, specifications subject to change without notice.*

**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency
PSDRHF150W-12A	85 ~ 132 VAC	12 VDC	12.5 A	120mVp-p	150W	82%
PSDRHF150W-13.8A		13.8 VDC	11.0 A	150mVp-p	151.8W	83%
PSDRHF150W-15A		15 VDC	10.0 A	150mVp-p	150W	83%
PSDRHF150W-24A		24 VDC	6.3 A	150mVp-p	151.2W	85%
PSDRHF150W-48A		48 VDC	3.1 A	200mVp-p	148.8W	86%
PSDRHF150W-12B	170 ~ 264 VAC	12 VDC	12.5 A	120mVp-p	150W	82%
PSDRHF150W-13.8B		13.8 VDC	11.0 A	150mVp-p	151.8W	83%
PSDRHF150W-15B		15 VDC	10.0 A	150mVp-p	150W	83%
PSDRHF150W-24B		24 VDC	6.3 A	150mVp-p	151.2W	85%
PSDRHF150W-48B		48 VDC	3.1 A	200mVp-p	148.8W	86%

**MECHANICAL DRAWING**

Unit: inches (mm)



## 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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