

## Wall Industries, Inc.

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### DCHF600W SERIES

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**2:1 Input Voltage Range**  
**24, 28, & 48 VDC Single Outputs**  
**600~624W Output Power**  
**DC/DC Chassis Mount Power Converters**

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#### FEATURES

- RoHS Compliant
- $\pm 10\%$  Voltage Adjustment Range
- Cooling Fan
- 2:1 Input Voltage Range
- High Reliability
- Built-in EMI Filter
- 600~624W Output Power
- 24V, 28V, and 48V Output Voltages Available
- Dimensions: 9.84 x 6.30 x 3.43 Inches
- Short Circuit, Over Voltage, Over Current, and Over Temperature Protected

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#### DESCRIPTION

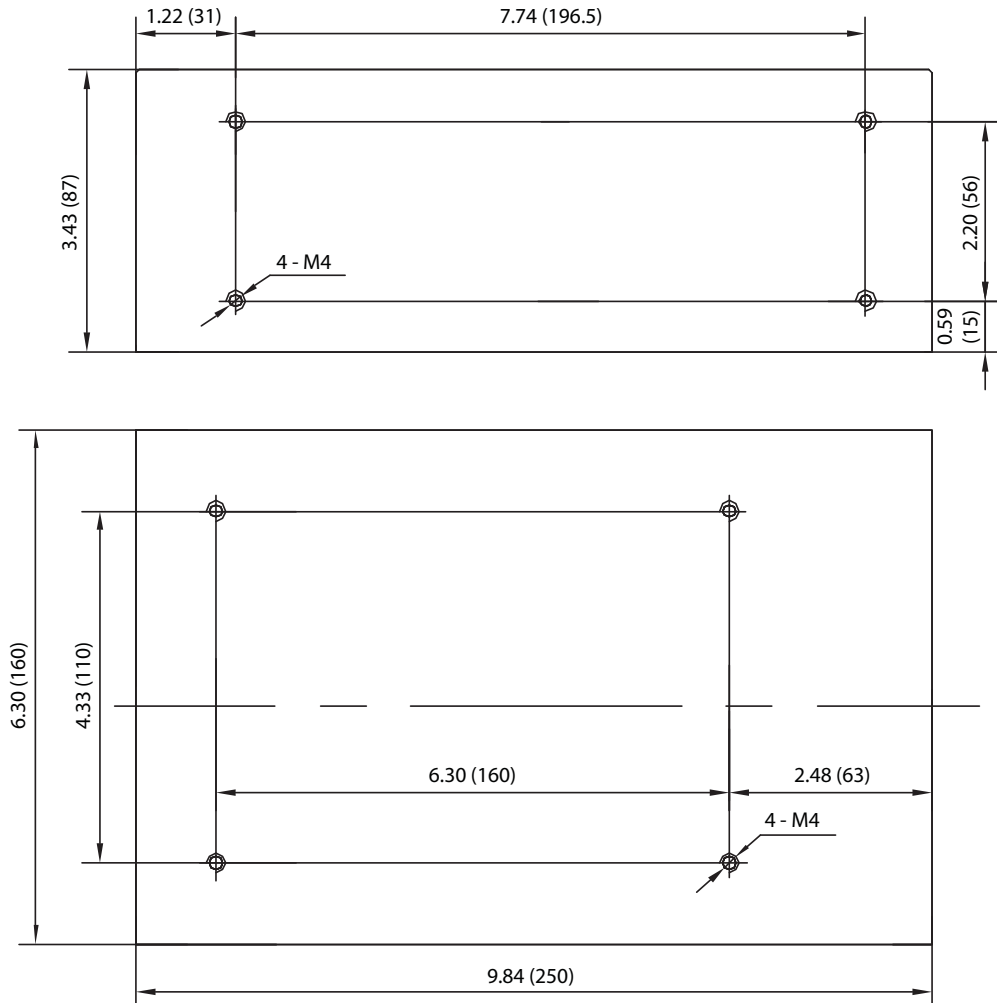
The DCHF600W series of DC/DC power converters offers output power from 600W to 624W in a 9.84" x 6.30" x 3.43" enclosed case. This series has 2:1 input voltage ranges of 36-72VDC and 72-144VDC and 24V, 28V, and 48VDC single outputs available. Some features include  $\pm 10\%$  output adjustability, cooling fan, and a built-in EMI filter. These supplies are also RoHS compliant. All models are protected against short circuit, over voltage, over current, and over temperature conditions.

<b>SPECIFICATIONS: DCHF600W Series</b>					
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.					
<b>SPECIFICATION</b>	<b>TEST CONDITIONS</b>	<b>Min</b>	<b>Nom</b>	<b>Max</b>	<b>Unit</b>
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range	48VDC nominal input models	36	48	72	VDC
	110VDC nominal input models	72	110	144	
<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			
<b>PROTECTION</b>					
Over Voltage Protection		115		150	% Vo
Over Current Protection		110		130	% Io
Short Circuit Protection		yes			
Over Temperature Protection		yes			
<b>GENERAL SPECIFICATIONS</b>					
Efficiency		See Table			
Withstand Voltage	Input to Output	All for 1 minute	1000		VDC
	Input to FG		1000		
	Output to FG		500		
Isolation Resistance	At 500VDC	100			MΩ
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature		-10		+50	°C
Operating Humidity (non-condensing)		20		90	% RH
Storage Temperature		-20		+85	°C
Storage Humidity (non-condensing)		20		95	% RH
Cooling Method		fan			
<b>PHYSICAL SPECIFICATIONS</b>					
Dimensions (L x W x H)		9.84 x 6.30 x 3.43 inches (250 x 160 x 87 mm)			
Weight		6.17 lbs (2800g)			
<b>SAFETY &amp; EMC CHARACTERISTICS</b>					
Safety Standards		Design refer to LVD			
EMC Standards		Design refer to EN55022, EN61000-4			

MODEL SELECTION TABLE						
Model Number	Input Voltage	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency
DCHF600W-SD48-24	48 VDC (36 - 72 VDC)	24 VDC	25A	240mV	600W	82%
DCHF600W-SD48-28		28 VDC	22A	240mV	616W	83%
DCHF600W-SD48-48		48 VDC	13A	480mV	624W	84%
DCHF600W-SD110-24	110 VDC (72 - 144 VDC)	24 VDC	25A	240mV	600W	82%
DCHF600W-SD110-28		28 VDC	22A	240mV	616W	83%
DCHF600W-SD110-48		48 VDC	13A	480mV	624W	84%

**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 ISO9001-2008 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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