

Wall Industries, Inc.

DCHF600W SERIES

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



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
-

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.

SPECIFICATIONS: <i>DCHF600W Series</i>						
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
INPUT SPECIFICATIONS						
Input Voltage Range	48VDC nominal input models		36	48	72	VDC
	110VDC nominal input models		72	110	144	
OUTPUT SPECIFICATIONS						
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			
PROTECTION						
Over Voltage Protection			115		150	% Vo
Over Current Protection			110		130	% Io
Short Circuit Protection			yes			
Over Temperature Protection			yes			
GENERAL SPECIFICATIONS						
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
ENVIRONMENTAL SPECIFICATIONS						
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			
PHYSICAL SPECIFICATIONS						
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)			
SAFETY & EMC CHARACTERISTICS						
Safety Standards			Design refer to LVD			
EMC Standards			Design refer to EN55022, EN61000-4			

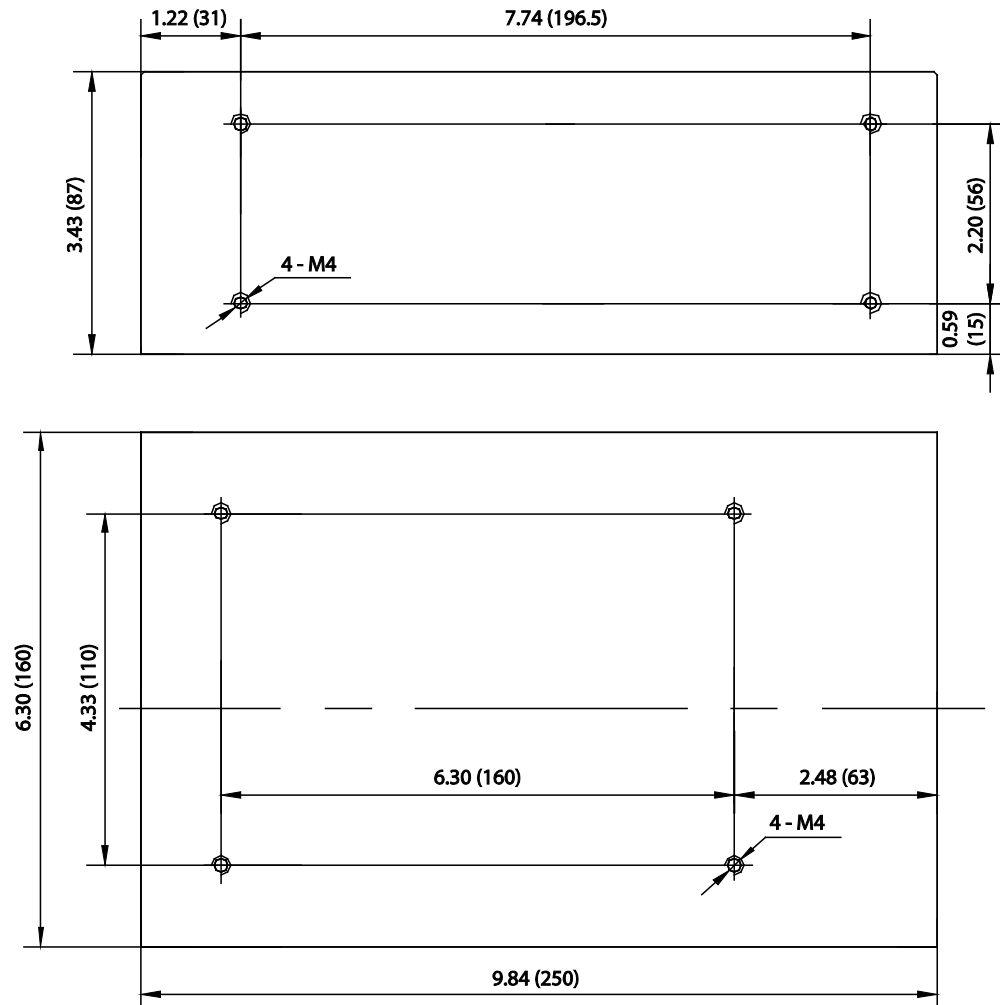
Due to advances in technology, specifications are subject to change without notice.

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 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:

Phone: ☎(603)778-2300
Toll Free: ☎(888)597-9255
Fax: ☎(603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

©2019 Wall Industries, Inc. Specifications subject to change without notice. Wall Industries is not responsible for typographical errors. The information contained herein is for informational purposes only. This information is provided by Wall Industries and we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information contained in this document for any purpose. All product and manufacturer names are trademarks or registered trademarks of their respective companies.