

Wall Industries, Inc.

DCHF1000W SERIES

36~72VDC & 95~132VDC Input Voltage Ranged
24, 28, & 48 VDC Single Outputs
840W~1008W Output Power
Enclosed DC/DC Power Converters



FEATURES

- RoHS Compliant
- $\pm 10\%$ Voltage Adjustment Range
- Cooling Fan
- 36~72VDC and 95~132VDC Input Voltage Ranges
- High Reliability
- Built-in EMI Filter
- 840~1008W Output Power
- 24V, 28V, and 48V Output Voltages Available
- 100% Full Load Burn-in Tested
- Dimensions: 9.84 x 6.30 x 3.43 Inches
- Short Circuit, Over Voltage, Over Current, and Over Temperature Protected

DESCRIPTION

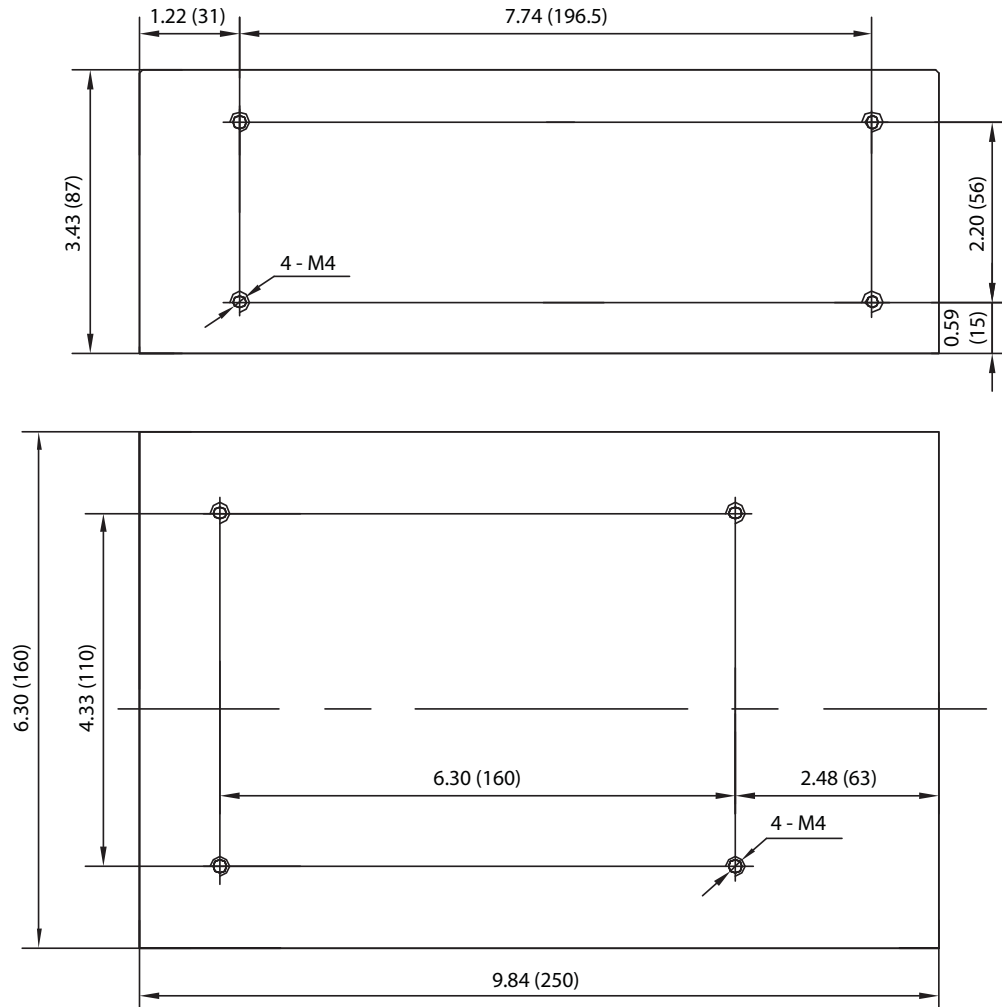
The DCHF1000W series of DC/DC power converters offers output power from 840W to 1008W in a 9.84" x 6.30" x 3.43" enclosed case. This series has 24V, 28V, and 48VDC single output models with input voltage ranges of 36-72VDC and 95-132VDC. Some features include $\pm 10\%$ output adjustability, cooling fan, and a built-in EMI filter. These supplies are RoHS compliant and are 100% full load burn-in tested. All models are protected against short circuit, over voltage, over current, and over temperature conditions.

SPECIFICATIONS: DCHF1000W 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
INPUT SPECIFICATIONS					
Input Voltage Range	48VDC nominal input models	36	48	72	VDC
	110VDC nominal input models	95	110	132	
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			1.0		%
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		6.8 lbs (3.10Kg)			
SAFETY & EMC CHARACTERISTICS					
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
DCHF1000W-SD48-24	48 VDC (36 - 72 VDC)	24 VDC	35A	240mV	840W	82%
DCHF1000W-SD48-28		28 VDC	30A	240mV	840W	83%
DCHF1000W-SD48-48		48 VDC	21A	480mV	1008W	84%
DCHF1000W-SD110-24	110 VDC (95 - 132 VDC)	24 VDC	35A	240mV	840W	82%
DCHF1000W-SD110-28		28 VDC	30A	240mV	840W	83%
DCHF1000W-SD110-48		48 VDC	21A	480mV	1008W	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:

<u>Phone:</u>	☎ (603)778-2300
<u>Toll Free:</u>	☎ (888)597-9255
<u>Fax:</u>	☎ (603)778-9797
<u>E-mail:</u>	sales@wallindustries.com
<u>Web:</u>	www.wallindustries.com
<u>Address:</u>	5 Watson Brook Rd. Exeter, NH 03833