

DCHF500 SERIES

2:1 & 4:1 Input Voltage Ranges
12, 24, & 27 VDC Single Outputs
480~504W Output Power
DC/DC Chassis Mount Power Converters



FEATURES

- RoHS Compliant
- ±10% Voltage Adjustment Range
- 2:1 & 4:1 Input Voltage Ranges
- Built-in Fan
- Built-in Remote Sense (Option)
- Remote ON/OFF Control (Option)

- 480~504W Output Power
- 12VDC, 24VDC, and 27VDC Single Outputs Voltages
- 100% Full Load Burn-in Tested
- Dimensions: 8.46 x 4.53 x 1.97 Inches
- Short Circuit, Over Voltage, Over Load, and Over

Temperature Protected

DESCRIPTION

The DCHF500 series of DC/DC power converters offers up to 504W output power in an 8.46 x 4.53 x 1.97 enclosed case. This series has 12VDC, 24VDC, and 27VDC single output models with either a 2:1 input voltage range of 72-144VDC or a 4:1 input voltage range of 19-72VDC. Some features include $\pm 10\%$ output adjustability, remote sense (optional), remote ON/OFF control (optional), and a built-in fan. These supplies are RoHS compliant and are protected against short circuit, over voltage, over load, and over temperature conditions. All supplies in this series are 100% full load burn-in tested.



SPECIFICATIONS: DCHF500 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	NDITIONS	Min	Nom	Max	Unit
INPUT SPECIFICATIONS						
Input Voltage Range	48VDC nominal inp	19	48	72	VDC	
	110VDC nominal in	110VDC nominal input models		110	144	VDC
Remote ON/OFF Control		optional				
OUTPUT SPECIFICATIONS						
Output Voltage				See '	Table	
Output Voltage Adjustment Range			-10		+10	%
Line Regulation	Full load		≤ -0.5		≤+0.5	%
Load Regulation			≤ -0.5		≤+0.5	%
Output Current	See Table					
Output Power	See Table					
Ripple & Noise				150		mVp-p
Remote Sense				opti	ional	
PROTECTION						
Over Voltage Protection			115		150	% Vo
Over Load Protection			110		130	% Io
Short Circuit Protection				Y	es	
Over Temperature Protection	Yes					
GENERAL SPECIFICATIONS						
Efficiency				See '	Table	
	Input to Output	All for 1 minute	1000			VDC
Withstand Voltage	Input to FG		1000			
	Output to FG		500			
Isolation Resistance	At 500VDC		> 100			ΜΩ
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature			-10		+50	°C
Storage Temperature			-20		+85	°C
Cooling Method				fa	an	
PHYSICAL SPECIFICATIONS						
Dimensions (L x W x H)		8.4	46 x 4.53 x 1	.97 inches	(215 x 115	x 50 mm)
Weight				2.4 lbs	(1100g)	
SAFETY & EMC CHARACTERISTICS						
Safety Standards	Design refer to LVD					
EMC Standards	Design refer to EN55022, EN61000-4			61000-4		

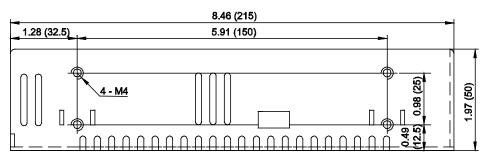
Due to advances in technology, specifications are subject to change without notice.

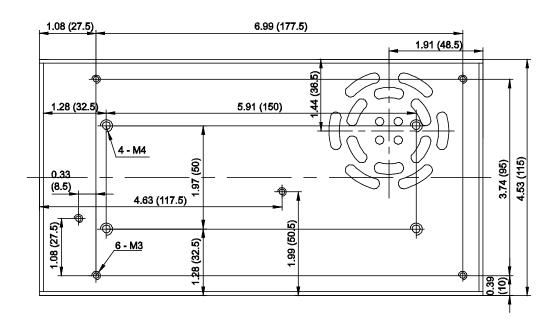


MODEL SELECTION TABLE								
Model Number	Input Voltage	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency		
DCHF500W-SMD48-12		12 VDC	40.0 A	150mVp-p	480W	86%		
DCHF500W-SMD48-24	48 VDC (19 - 72 VDC)	24 VDC	21.0 A	150mVp-p	504W	88%		
DCHF500W-SMD48-27		27VDC	18.5A	150mVp-p	499.5W	-		
DCHF500W-SMD110-12	110 VDC (72 - 144 VDC)	12 VDC	40.0 A	150mVp-p	480W	87%		
DCHF500W-SMD110-24		24 VDC	21.0 A	150mVp-p	504W	89%		

MECHANICAL DRAWING

Unit: inches (mm)

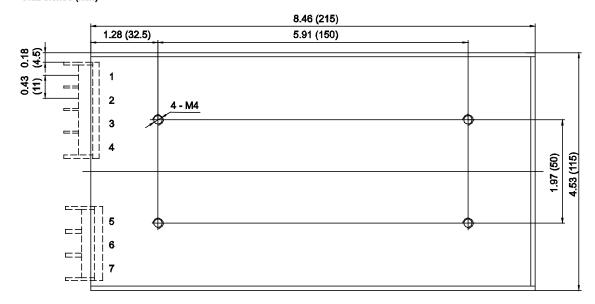


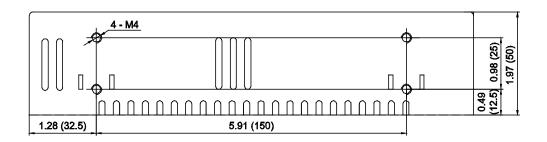




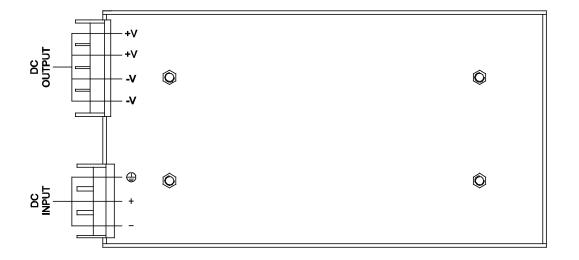
PIN CONNECTIONS

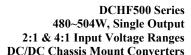
Unit: inches (mm)





PIN CONNECTIONS			
Pin No	Assignment		
1, 2	DC Output (V+)		
3, 4	DC Output (V-)		
5	FG		
6	DC Input (V+)		
7	DC Input (V-)		
Screw Size: M4*6			







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:

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