

DCHF100W SERIES

2:1 Input Voltage Range 5, 12, 24, & 48VDC Single Outputs 100 Watts Output Power DC/DC Chassis Mount Power Converters



FEATURES

- Single Output
- RoHS Compliant
- ±10% Voltage Adjustment Range
- Free Air Convection
- 2:1 Input Voltage Range
- High Reliability
- Built-in EMI Filter
- 100W Output Power
- 5, 12, 24, and 48VDC Output Voltages Available
- Dimensions: 7.83 x 3.86 x 1.54 Inches
- Short Circuit and Over Current Protection

DESCRIPTION

The DCHF100W series of DC/DC power converters offers 100W of output power in a 7.83" x 3.86" x 1.54" enclosed case. This series has 2:1 input voltage ranges of 18-36VDC, 36-72VDC, and 72-144VDC. The DCHF100W series also has 5V, 12V, 24V, and 48VDC single outputs available. Some features include $\pm 10\%$ output adjustability, a built-in EMI filter, and over current and short circuit protection. These supplies are also RoHS compliant.



SPECIFICATIONS: *DCHF100W 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 C	ONDITIONS	Min	Nom	Max	Unit		
INPUT SPECIFICATIONS								
Input Voltage Range	24VDC nominal in	24VDC nominal input models		24	36			
	48VDC nominal in	48VDC nominal input models		48	72	VDC		
	110VDC nominal i	110VDC nominal input models			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 Current Protection			110		130	% Io		
Short Circuit Protection				Y	es			
GENERAL SPECIFICATIONS								
Efficiency		See Table						
	Input to Output		1000			VDC		
Withstand Voltage	Input to FG	All for 1 minute	1000					
	Output to FG		500					
Isolation Resistance	At 500VDC		> 100			ΜΩ		
ENVIRONMENTAL SPECIFICATION	IS							
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				Free air c	convection			
PHYSICAL SPECIFICATIONS								
Dimensions (L x W x H)			7		x 1.54 inch x 39 mm)	es		
Weight				1.2 lbs	(550g)			
SAFETY & EMC CHARACTERISTIC	S							
Safety Standards					Design refer to LVD			
EMC Standards	Design refer to EN55022, EN61000-4			61000-4				

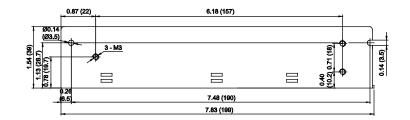
Due to advances in technology, specifications are subject to change without notice.



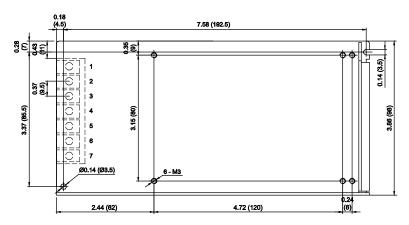
MODEL SELECTION TABLE							
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency	
DCHF100W-SD24-5	24 VDC (18 - 36 VDC)	5 VDC	20A	100mVp-p	100W	74%	
DCHF100W-SD24-12		12 VDC	8.5A	120mVp-p	100W	75%	
DCHF100W-SD24-24		24 VDC	4.2A	150mVp-p	100W	78%	
DCHF100W-SD24-48		48 VDC	2.1A	200mVp-p	100W	79%	
DCHF100W-SD48-5	48 VDC (36 - 72 VDC)	5 VDC	20A	100mVp-p	100W	74%	
DCHF100W-SD48-12		12 VDC	8.5A	120mVp-p	100W	75%	
DCHF100W-SD48-24		24 VDC	4.2A	150mVp-p	100W	78%	
DCHF100W-SD48-48		48 VDC	2.1A	200mVp-p	100W	79%	
DCHF100W-SD110-5	110 VDC (72 - 144 VDC)	5 VDC	20A	100mVp-p	100W	74%	
DCHF100W-SD110-12		12 VDC	8.5A	120mVp-p	100W	75%	
DCHF100W-SD110-24		24 VDC	4.2A	150mVp-p	100W	78%	
DCHF100W-SD110-48	1	48 VDC	2.1A	200mVp-p	100W	79%	

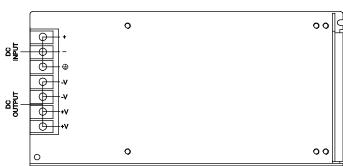
MECHANICAL DRAWING

Unit: inches (mm)



PIN C	PIN CONNECTIONS		
Pin No	Assignment		
1	DC Input (V+)		
2	DC Input (V-)		
3	FG		
4,5	DC Output (V-)		
6,7	DC Output (V+)		
Screw	Screw Size: M3*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: 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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