

# Wall Industries, Inc.

# **DCHF60W SERIES**

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



### **FEATURES**

- High Reliability
- Built-in EMI Filter
- 60W Output Power
- Dimensions: 6.30 x 3.86 x 1.54 Inches
- Short Circuit and Over Load Protected

- Single Output
- RoHS Compliant
- ±10% Voltage Adjustment Range
- Free Air Convection
- 2:1 Input Voltage Ranges

#### DESCRIPTION

The DCHF60W series of DC/DC power converters offers 60W of output power in a 6.30" 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 DCHF60W 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 load and short circuit protection. These supplies are also RoHS compliant.



# **SPECIFICATIONS: DCHF60W 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	Min	Nom	Max	Unit			
INPUT SPECIFICATIONS								
Input Voltage Range	24VDC nominal in	18	24	36	VDC			
	48VDC nominal input models		36	48		72		
	110VDC nominal	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 Load Protection			110		150	%		
Short Circuit Protection				Y	es			
GENERAL SPECIFICATIONS			·					
Efficiency			See Table					
	Input to Output	All for 1 minute	1000					
Withstand Voltage	Input to FG		1000			VDC		
	Output to FG		500					
Isolation Resistance	At 500VDC		> 100			ΜΩ		
ENVIRONMENTAL SPECIFICATION	ONS							
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	onvection			
PHYSICAL SPECIFICATIONS								
Dimensions (L x W x H)		6.30	x 3.86 x 1.	54 inches	(160 x 98 z	x 39 mm)		
Weight				15.5oz	(440g)			
SAFETY & EMC CHARACTERISTI	CS							
Safety Standards	Design refer to LVD							
EMC Standards	Design refer to EN55022, EN61000-4							

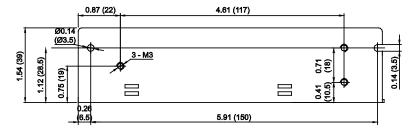
Due to advances in technology, specifications are subject to change without notice.



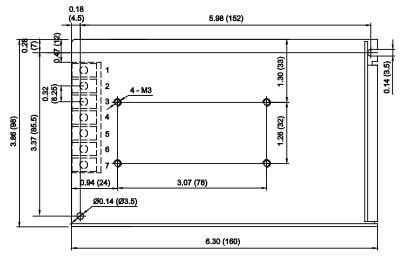
MODEL SELECTION TABLE							
Model	Input Voltage	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency	
DCHF60W-SD24-5		5 VDC	12.0 A	100mVp-p	60W	70%	
DCHF60W-SD24-12	24 VDC (18 – 36 VDC)	12 VDC	5.0 A	120mVp-p	60W	72%	
DCHF60W-SD24-24		24 VDC	2.5 A	150mVp-p	60W	74%	
DCHF60W-SD24-48		48 VDC	1.3 A	200mVp-p	62.4W	75%	
DCHF60W-SD48-5	48 VDC (36 – 72 VDC)	5 VDC	12.0 A	100mVp-p	60W	70%	
DCHF60W-SD48-12		12 VDC	5.0 A	120mVp-p	60W	72%	
DCHF60W-SD48-24		24 VDC	2.5 A	150mVp-p	60W	74%	
DCHF60W-SD48-48		48 VDC	1.3 A	200mVp-p	62.4W	75%	
DCHF60W-SD110-5	110 VDC (72 – 144 VDC)	5 VDC	12.0 A	100mVp-p	60W	70%	
DCHF60W-SD110-12		12 VDC	5.0 A	120mVp-p	60W	72%	
DCHF60W-SD110-24		24 VDC	2.5 A	150mVp-p	60W	74%	
DCHF60W-SD110-48		48 VDC	1.3 A	200mVp-p	62.4W	75%	

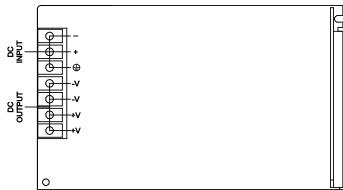
# **MECHANICAL DRAWING**

Unit: inches (mm)



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 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 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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