



Size: 8.46 x 4.53 x 1.97in (215 x 115 x 50mm)

FEATURES

- 2:1 Input Voltage Range
- High Reliability
- ±10% Voltage Adjustment Range
- Forced Air Cooling by Built-In Fan
- 100% Full Load Burn-In Test
- RoHS Compliant
- Over Load, Over Voltage, Over Temperature, and Short Circuit Protection
- Design Refers to GB4943, UL60950, and EN60950 Safety Standards

DESCRIPTION

The DCHF300W series of DC/DC power converters offers 300W output power in an $8.46 \times 4.53 \times 1.97$ enclosed case. This series has 2:1 input voltage ranges of $18\sim36$ VDC, $36\sim72$ VDC and $72\sim144$ VDC and 12VDC, 24VDC, and 48VDC single outputs available. Some features include $\pm10\%$ output adjustability and built-in fan speed control. These supplies are RoHS compliant and are protected against short circuit, over voltage, over current, and over temperature conditions. The design refers to GB4943, UL60950, and EN60950 safety standards.

MODEL SELECTION TABLE						
Model Number	Input Voltage Range	Output Voltage	Output Current	Max. Ripple & Noise	Rated Power	Efficiency
DCHF300W-SD24-12	0.4) /D.0	12V	25A	150mVp-p	300W	83%
DCHF300W-SD24-24	24VDC (18~36VDC)	24V	12.5A	150mVp-p	300W	83%
DCHF300W-SD24-48	(10.30000)	48V	6.3A	240mVp-p	302.4W	86%
DCHF300W-SD48-12	10) (5.0	12V	25A	150mVp-p	300W	84%
DCHF300W-SD48-24	48VDC (36~72VDC)	24V	12.5A	150mVp-p	300W	86%
DCHF300W-SD48-48	(30 12 1 1 1)	48V	6.3A	240mVp-p	302.4W	85%
DCHF300W-SD110-12	440) (5.0	12V	25A	150mVp-p	300W	84%
DCHF300W-SD110-24	110VDC (72~144VDC)	24V	12.5A	150mVp-p	300W	88%
DCHF300W-SD110-48	(12*144VDC)	48V	6.3A	240mVp-p	302.4W	89%

SPECIFICATIONS					
All specifications	s are based on 25°C Ambient Temperature, Rated Input Voltage, and Rat		otherwise	noted.	
	We reserve the right to change specifications based on technological		_		
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit
INPUT SPECIFICATIONS					
	24VDC Nominal Input Models	18	24	36	VDC
Input Voltage Range	48VDC Nominal Input Models	36	48	72	
	110VDC Nominal Input Models	72	110	144	
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Voltage Adjustment Range			±10		%
Line Regulation ⁽¹⁾	Full Load		±0.5		%
Load Regulation ⁽²⁾			0.5		%
Voltage Tolerance			±1		%
Output Power			See Table		
Output Current			See Table		
Ripple & Noise ⁽³⁾			See Table		
Rise Time	@Full Load		50		mS
PROTECTION					
Short Circuit Protection	Hiccup Mode	Automatic Recovery			
Over Load Protection	Hiccup Mode, Automatic Recovery	105		150	%
Over Voltage Protection	Shut Off, Re-power on to recover	115		150	%
Over Temperature Protection		Yes			
ENVIRONMENTAL SPECIFICAT	TIONS	·			
Operating Temperature		-20		50	°C
Storage Temperature		-20		85	°C
Operating Humidity	Non-Condensing	20		93	%RH
Storage Humidity	Non-Condensing	20		95	%RH
Cooling	Full speed when power is on		By Fan		
Vibration	10~150Hz 2G 10min/1cycle, 30min each along X, Y, Z axes				
MTBF		100,000			Hours



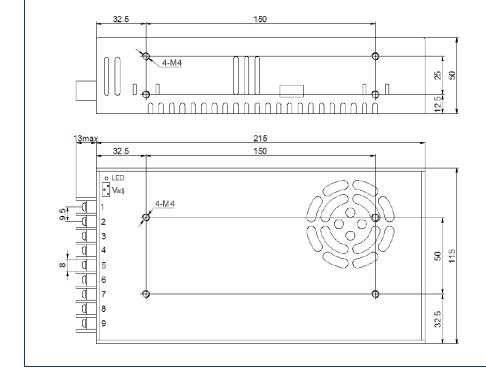
SPECIFICATIONS							
	based on 25°C Ambient Temperature			otherwise i	noted.		
	We reserve the right to change specif			_			
SPECIFICATION	TEST CO	NDITIONS	Min	Тур	Max	Unit	
GENERAL SPECIFICATIONS							
Efficiency				See Table			
	Input to Output			1.5KVAC/1min			
Withstand Voltage	Input – PE			1.5KVAC/1min			
_	Output – PE			0.5KVAC/1min			
Isolation Resistance	@500VDC					ΜΩ	
PHYSICAL SPECIFICATIONS		'			<u>'</u>		
Weight				2.89lbs (1.3125kg)		
Dimensions (L x W x H)				8.46in x 4.53in x 1.97in			
Differsions (L X W X H)				(215mm x 115mm x 50mm)			
Connection				9P/9.5mm screw terminal block			
Packing				16pcs/21kgs/0.045CBM per carton			
SAFETY CHARACTERISTICS							
		GB4943					
Safety Standards	Design Refers to	UL60950 ⁽⁵⁾					
		EN60950					
		GB9254					
EMC Standards	Design Refers to	EN55022	Class			Class A	
		EN61000					

NOTES

- 1. Line regulation is measured from low line to high line at rated load.
- 2. Load regulation is measured from 0% to 100% of rated load for single output models.
- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 4. This power supply is regarded as a component that will be installed into the final equipment. Final equipment must be re-confirmed that it still meets EMC directives.
- 5. This product is Listed to applicable standards and requirements by UL

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

MECHANICAL DRAWINGS



Terminal Pin No. Assignment

Assignment		
DC OUTPUT +V		
DC OUTPUT -V		
PE		
DC INPUT+V		
DC INPUT -V		

Length of assembly screw: max. 6mm



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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