



Size: 5.08in x 3.86in x 1.57in

FEATURES

- Single, Dual, and Triple Outputs
- RoHS Compliant
- Output Voltage Adjustability
- Free Air Convection
- 2:1 Input Voltage Range

- High Reliability
- Built-in EMI Filter
- 38.4~47.5W Output Power
- Short Circuit and Over Load Protection
- 100% Full Load Burn-In Tested

DESCRIPTION

The DCHF40W series of DC/DC power converters offers from 38.4W to 47.5W of output power in a 5.08" x 3.86" x 1.57" enclosed case. This series has 2:1 input voltage ranges of 18-36VDC, 36-72VDC, and 72-144VDC. This series also has single, dual, and triple output models available. Some features include output adjustability, a built-in EMI filter, and short circuit and over load protection. All models are RoHS compliant.

MODEL SELECTION TABLE								
Single Output Models								
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Load Regulation	Output Power	Voltage Tolerance	Efficiency
DCHF40W-SD24-5	24.1/DC	5VDC	8.0A	80mVp-p	0.5%	40W	±2%	75%
DCHF40W-SD24-12	24 VDC (18-36VDC)	12VDC	3.3A	120mVp-p	0.5%	39.6W	±1%	79%
DCHF40W-SD24-24	(10-30VDC)	24VDC	1.6A	150mVp-p	0.5%	38.4W	±1%	84%
DCHF40W-SD48-5	48 VDC	5VDC	8.0A	80mVp-p	0.5%	40W	±2%	77%
DCHF40W-SD48-12	(36-72 VDC)	12VDC	3.3A	120mVp-p	0.5%	39.6W	±1%	81%
DCHF40W-SD48-24	(30-12 VDC)	24VDC	1.6A	150mVp-p	0.5%	38.4W	±1%	85%
DCHF40W-SD110-5	440.VDC	5VDC	8.0A	80mVp-p	0.5%	40W	±2%	77%
DCHF40W-SD110-12	110 VDC (72-144 VDC)	12VDC	3.3A	120mVp-p	0.5%	39.6W	±1%	81%
DCHF40W-SD110-24	(12-144 VDC)	24VDC	1.6A	150mVp-p	0.5%	38.4W	±1%	85%

MODEL SELECTION TABLE								
Dual Output Models								
Model Number		Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency	
DCHF40W-DD24-A	V1		5VDC	0.5~4.0A	100mVp-p	44W	70%	
DCHF4UW-DD24-A	V2	24 VDC	12VDC	0~2.0A	150mVp-p	4400		
DCHF40W-DD24-B	V1	(18-36VDC)	15VDC	0.2~2.0A	150mVp-p	52.5W	70%	
DCHF40VV-DD24-B	V2		-15VDC	0~1.5A	150mVp-p	32.300	7070	
DCHF40W-DD48-A	V1	48 VDC (36-72 VDC)	5VDC	0.5~4.0A	100mVp-p	44W	70%	
DCTF40W-DD40-A	V2		12VDC	0~2.0A	150mVp-p	4400	7070	
DCHF40W-DD48-B	V1		15VDC	0.2~2.0A	150mVp-p	52.5W	70%	
DCUL4011-DD40-D	V2		-15VDC	0~1.5A	150mVp-p	52.5٧٧	10%	
DCHF40W-DD110-A	V1		5VDC	0.5~4.0A	100mVp-p	4.4\\	70%	
	V2	110 VDC	12VDC	0~2.0A	150mVp-p	44W	70%	
DCHE40W DD440 B	V1	(72-144 VDC)	15VDC	0.2~2.0A	150mVp-p	52.5W	70%	
DCHF40W-DD110-B	V2		-15VDC	0~1.5A	150mVp-p	5∠.5٧٧	70%	

MODEL SELECTION TABLE								
Triple Output Models								
Model Number		Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency	
	V1	24 VDC (18-36VDC)	5VDC	0.5~3.5A	100mVp-p		67%	
DCHF40W-TD24-A	V2		12VDC	0.1~1.5A	150mVp-p	47.5W		
	V3	(10-30000)	-12VDC	0.1~1.0A	150mVp-p			
	V1	48 VDC (36-72 VDC)	5VDC	0.5~3.5A	100mVp-p		67%	
DCHF40W-TD48-A	V2		12VDC	0.1~1.5A	150mVp-p	47.5W		
	V3		-12VDC	0.1~1.0A	150mVp-p			
	V1	110 VDC (72-144 VDC)	5VDC	0.5~3.5A	100mVp-p			
DCHF40W-TD110-A	V2		12VDC	0.1~1.5A	150mVp-p	47.5W	67%	
	V3		-12VDC	0.1~1.0A	150mVp-p			



SPECIFICATIONS								
All specifications	are based on 25°C, Nominal Input Voltage, and Max We reserve the right to change specifications based	ximum Output d on technolog	Current unless lical advances.	otherwise note	d.			
SPECIFICATION	TEST CONDITIONS		Min	Тур	Max	Unit		
INPUT SPECIFICATIONS	120. 33.12.113.13			.,,,	1115671	J		
in or or con io, thore	24VDC Nominal Input Models		18		36			
Input Voltage Range	48VDC Nominal Input Models				72	VDC		
par vallaga valliga	110VDC Nominal Input Models		72		144			
OUTPUT SPECIFICATIONS	TTO V DO TTOTIMICA IMPACTIONADIO							
Output Voltage				See Table	2			
Output Voltage Adjustment Range				±10		%		
Line Regulation ⁽¹⁾	Full Load		±5					
Load Regulation ⁽²⁾	1 4.11 2044			See Table	•	%		
Rise Time	@Full Load			50		ms		
Output Current	@. u 2000			See Table	3			
Output Power				See Table				
Ripple & Noise (20MHz bandwidth) ⁽³⁾			See Table					
PROTECTION				CCC TUDIO				
Short Circuit Protection	Hiccup mode, auto recovery							
Over Load Protection	Hiccup mode, auto recovery		105		150	%		
ENVIRONMENTAL SPECIFICATIONS								
Operating Temperature			-20		50	°C		
Storage Temperature			-20		85	°C		
Operating Humidity	Non-Condensing		20		93	%RH		
Storage Humidity	Non-Condensing		20		95	%RH		
Vibration	2G 10min/1cycle, 30min each along X,Y,Z axes							
Cooling				Convectio	n			
MTBF			>100,000			Hrs.		
GENERAL SPECIFICATIONS								
Efficiency				See Table				
	I/P-O/P		1.5KVAC/1min					
Withstand Voltage	I/P-PE		1.5KVAC/1min					
	O/P-PE		1.5KVAC/1min					
Isolation Resistance	@500VDC			>100		ΜΩ		
PHYSICAL SPECIFICATIONS	<u> (6,000.2.0</u>							
Weight				11.64oz (33	()a)			
Dimensions (L x W x H)	5.08in x 3.86in x1.57in (129mm x 98mm x 40mn							
Connection	5P/9.5mm screw terminal block							
Packing	0.34kgs, 42pcs/16.5kgs/0.035CBM per carton							
SAFETY & EMC CHARACTERISTICS			5.0-riggs, 42p	55, 10.0kg5/0.0	CCODIVI PCI	Carton		
Safety Standards		ian refers to G	B4943, UL6095	0 ⁽⁵⁾ FN60950				
EMC Standards ⁽⁴⁾		0	B9254, EN5502		61000			
LIVIO Glaridalus	Desi	igit relets to G	DUZUT, LINUUUZ	Le Class M, EIV	0 1000			

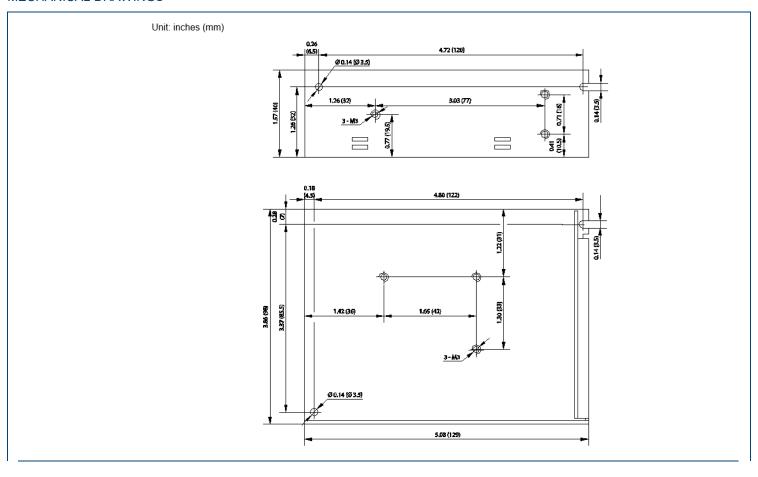
NOTES

- (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. For multi-output models, it is measured from 20% to 100% of rated load, and other output at 60% rated load.
- (3) Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.
- (4) The power supply is regarded as a component which will be installed into final equipment. The 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 are subject to change without notice.



MECHANICAL DRAWINGS



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.

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