Single Outputs



Through Hole Package





Size: 2.40in x 2.28in x 0.50in (61mm x 57.9mm x 12.7mm)

Through Hole Package with Heatsink





Size: 2.40in x 2.28in x 0.95in (61mm x 57.9mm x 24.2mm)

Terminal Block



Size: 3.35in x 2.40in x 1.35in (85mm x 61mm x 34.2mm)

Terminal Block with EMC Filter



Size: 3.35in x 2.40in x 1.54in (85mm x 61mm x 39mm)

OPTIONS

- Pin Length
- Sync Pin
- Case Pin
- Heatsinks
- Thru-Hole Inserts
- Negative Logic Remote On/Off
- Terminal Block
- Terminal Block with EMC Filter

FEATURES

- Soft Start
- 4:1 Ultra Wide Input Ranges
- 132~182 Watts of Output Power
- Single Outputs Ranging from 3.3VDC-48VDC
- Under Voltage Lockout
- High Efficiency
- No Minimum Load Requirement
- Several Mechanical Options Available

- Adjustable Output Voltage
- Industry Standard Half-Brick Footprint
- Remote On/Off Control
- 2250VDC Basic Isolation, 3000VAC Reinforced Isolation
- Thru-Hole Insert Versions and Terminal Blocks Versions Available
- Short Circuit, Over Current, Over Temperature, and Over Voltage Protection
- RoHS & REACH Compliant
- IEC/UL/EN60950-1 Safety Approvals

APPLICATIONS

- Railway Applications
- Wireless Networks
- Telecom/Datacom
- Industry Control Systems
- Semiconductor Equipment
- Distributed Power Architectures
- Military Applications

DESCRIPTION

The DCHBW150 series of DC/DC power converters provides up to 182 watts of output pow rin an industry standard half-brick package and footprint. This series consists of single output models ranging from 3.3VDC to 48VDC with 4:1 ultra-wide input voltage ranges. Some features include high efficiency up to 91%, adjustable output voltage, and remote on/off control. These converters also have short circuit, over voltage, over current, and over temperature protection. The DCHBW150 series is RoHS & REACH compliant and has IEC/UL/EN60950-1 safety approvals. Several different options are available for this series including negative remote on/off control, terminal block, pin length, heatsinks, sync pin, case pin, and thru-hole inserts. Please contact factory for more details.

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	MODEL SELECTION TABLE									
Model Number	Input Voltage	Input Voltage Output Output Current Ripple & Noise		No Load	Output	Maximum	Efficiency			
Model Number	Range	Voltage	Min Load	Full Load	Kippie & Noise	Input Current	Power	Capacitive Load	Liliciency	
DCHBW150-24S3.3	24VDC	3.3VDC	0mA	40A	75mVp-p	20mA	132W	121000μF	88%	
DCHBW150-24S05	(9~36VDC)	5VDC	0mA	28A	75mVp-p	25mA	140W	56000µF	90%	
DCHBW150-24S12		12VDC	0mA	12A	100mVp-p	25mA	144W	10000μF	90%	
DCHBW150-24S15	24VDC	15VDC	0mA	9.5A	100mVp-p	25mA	142.5W	6300µF	91%	
DCHBW150-24S24	(8.5~36VDC)	24VDC	0mA	6A	200mVp-p	25mA	144W	2500µF	90%	
DCHBW150-24S28	(0.5~30VDC)	28VDC	0mA	5A	200mVp-p	25mA	140W	1700µF	90%	
DCHBW150-24S48		48VDC	0mA	3A	300mVp-p	35mA	144W	620µF	90%	
DCHBW150-48S3.3		3.3VDC	0mA	40A	75mVp-p	15mA	132W	121000µF	89%	
DCHBW150-48S05		5VDC	0mA	30A	75mVp-p	15mA	150W	60000µF	91%	
DCHBW150-48S12	48VDC	12VDC	0mA	13A	100mVp-p	20mA	156W	10800μF	91%	
DCHBW150-48S15	(16.5~75VDC)	15VDC	0mA	10A	100mVp-p	20mA	150W	6600µF	91%	
DCHBW150-48S24	(10.5~75700)	24VDC	0mA	6.5A	200mVp-p	20mA	156W	2700µF	91%	
DCHBW150-48S28		28VDC	0mA	5.5A	200mVp-p	20mA	154W	1900µF	91%	
DCHBW150-48S48		48VDC	0mA	3.2A	300mVp-p	25mA	153.6W	660µF	91%	
DCHBW150-110S3.3		3.3VDC	0mA	43A	75mVp-p	10mA	141.9W	130000µF	88%	
DCHBW150-110S05		5VDC	0mA	32A	75mVp-p	10mA	160W	64000µF	90%	
DCHBW150-110S12	110\/DC	12VDC	0mA	15A	100mVp-p	10mA	180W	12500µF	90%	
DCHBW150-110S15	110VDC	15VDC	0mA	12A	100mVp-p	10mA	180W	8000µF	90%	
DCHBW150-110S24	(43~160VDC)	24VDC	0mA	7.5A	200mVp-p	10mA	180W	3100µF	90%	
DCHBW150-110S28		28VDC	0mA	6.5A	200mVp-p	10mA	182W	2300µF	90%	
DCHBW150-110S48		48VDC	0mA	3.8A	300mVp-p	10mA	182.4W	790µF	90%	

SPECIFICATIONS								
	ecifications are based on 25°C, Nor				ed.			
	We reserve the right to change spec		sed on technological ac		1	1		
SPECIFICATION	TEST CC	NDITIONS		Min	Тур	Max	Unit	
INPUT SPECIFICATIONS								
	24VDC Nominal Input Models	3.3 & 5VDC Models	9	24	36			
Input Voltage Range	·	Others	8.5	24	36	VDC		
Input voltage Nange	48VDC Nominal Input Models			16.5	48	75	VDC	
	110VDC Nominal Input Models			43	110	160		
	24VDC Nominal Input Models					9		
Start-Up Voltage	48VDC Nominal Input Models					18	VDC	
	110VDC Nominal Input Models					43		
	24VDC Nominal Input Models			7.3	7.7	8.1		
Shutdown Voltage	48VDC Nominal Input Models			15.5	16	16.3	VDC	
-	110VDC Nominal Input Models			33.0	34.5	36		
	24VDC Nominal Input Models					50		
Input Surge Voltage (1 sec)	48VDC Nominal Input Models				100	VDC		
,	110VDC Nominal Input Models				180			
Input Current	No Load							
Input Filter (See Note 1)					Pi T	Гуре		
Sync Pin Signal (See Note 2)				-0.3		5.6	VDC	
OUTPUT SPECIFICATIONS								
Output Voltage				See Table				
Voltage Accuracy				-1.0		+1.0	%	
Line Regulation	Low Line to High Line at Full Loa	d		-0.1		+0.1	%	
Load Regulation	No Load to Full Load			-0.1		+0.1	%	
Voltage Adjustability (See Note 3)	Maximum output deviation is incl	usive of rem	ote sense	-20		+10	%	
Remote Sense (See Note 4)	% of Vout (nom)					10	%	
Output Power						Table		
Output Current					See	Table		
Minimum Load				0			%	
Maximum Capacitive Load						Table		
	With a 1µF/25V X7R MLCC & a 2	22µF/25V	3.3V & 5V Models		75			
Ripple & Noise	POS-CAP		12V & 15V Models		100		mVp-p	
(Measured by 20MHz bandwidth)	With a 4.7µF/50V X7R MLCC	24V & 28V Models		200		1114 h-h		
	With a 2.2µF/100V X7R MLCC		300					
Transient Response Recovery Time	25% load step change				200	250	μs	
Start-Up Time	Constant Resistive Load	Constant Resistive Load Power Up Remote ON/OFF			75		mS	
'	Constant Nesistive Load				75			
Temperature Coefficient -0.02 +0.02 %/%								

Page 3 of 13



5/9/2017

SPECIFICATIONS	specifications are based or	25°C Nominal	Input, and Full Load unless oth	erwise not	ed		
All	We reserve the right to c	hange specificat	ions based on technological ac	lvances.	s u.		
SPECIFICATION		TEST CONDITI		Min	Тур	Max	Unit
REMOTE ON/OFF CONTROL (See					.,,,	1710.71	J
•	DC/DC ON				Open or 3	3~12VDC	
Positive Logic (Standard)	DC/DC OFF)~1.2VDC	
Nia anti-un I anti-	DC/DC ON)~1.2VDC	
Negative Logic	DC/DC OFF				Open or 3	3~12VDC	
Input Current of CTRL Pin				.05		1	mA
Remote OFF Input Current					3		mA
PROTECTION							
Short Circuit Protection				Con	tinuous, Aut	omatic Reco	overy
Over Load Protection	%of lout rated; Hiccup M	lode		120		150	%
Over Voltage Protection	% of Vout (nom); Hiccup	Mode		115		130	%
Over Temperature Protection					+120		°C
ENVIRONMENTAL SPECIFICATIO							
Operating Case Temperature	Base-Plate			-40		+115	∘C
Storage Temperature	Terminal Block Type			-40		+105	°C
Otorage Temperature	Others			-55		+125	°C
	Module without Assemble				6.1		
Thermal Impedance (See Note 6)	Only Mount on the Iron E				2.8		•C/W
	Heat-Sink Type with 0.24				5.1		
	Heat-Sink Type with 0.4	5" Height			4.6		
Relative Humidity				5		95	%RH
Thermal Shock					MIL-ST		
Shock					EN61373, M		
Vibration					EN61373, M	IL-STD-810I	
MTBF	MIL-HDBK-217F, Full Lo	ad			350,000		Hours
GENERAL SPECIFICATIONS						-	
Efficiency				005	_	Table	1.11-
Switching Frequency	A BAllanda		Innut to Output	225	250	275	kHz
	1 Minute	110Vin (nom)	Input to Output	3000			VAC
Isolation Voltage	(Reinforced Insulation)	, ,	Input (Output to Case)	1500			
-	1 Minute (Basic Insulation)	Others	Input to Output	2250 1600			VDC
Isolation Resistance			Input (Output to Case)	1			60
Isolation Capacitance	500VDC			ı		2500	GΩ pF
PHYSICAL SPECIFICATIONS						2300	рі
THORALGIZORIOATIONS	Through Hole Package				3.70oz	(105a)	
	Terminal Block without E	MC Filter (-T Su	ffix)		8.29oz		
Weight	Terminal Block with EMO		9.88oz (280g)				
	Terminal Block with EMC		10.12oz (287g)				
	Through Hole Package	or mor rriat oan	Connect to 1 E (11 1 Cumx)	2 40 x 2			12 7mm)
	Terminal Block without E	MC Filter (-T Su	2.40 x 2.28 x 0.50in (61 x 57.9 x 12.7mm) 3.35 x 2.40 x 1.35in (85 x 61 x 34.2mm)				
Dimensions (L x W x H)	Terminal Block with EMO			3.35 x 2.40 x 1.54in (85 x 61 x 39mm)			
	Terminal Block with EMC		3.35 x 2.40 x 1.59in (85 x 61 x 40.5mm)				
	24VDC Nominal Input &			0.00 X Z		etal	10.011111)
Case Material	110VDC Nominal Input	1012011011111101	mpat	Alumini	um base-pla		ic Case
Base Material	24VDC Nominal Input &	48VDC Nominal	Input			PCB	
Potting Material		10120110111110			Silicone (
SAFETY CHARACTERISTICS					(,	
			IEC/III /ENCOCES 4			L	JL:E193009
Safety Approvals			IEC/UL/EN60950-1			CB:l	JL (Demko)
Standard Approvals			EN50155				, ,
Standard Approvals			EN45545-2				
	EN55011, EN55032						Class A
EMI (See Note 7)					Class A		
(000 / 1010 / /		connect to PE (
			vith External Components				A, Class B
ESD	EN61000-4-2	Air ±8kV and C	ontact ±6kV				f. Criteria A
Radiated Immunity	EN61000-4-3	20V/m					f. Criteria A
Fast Transient (See Note 8)	EN61000-4-4	±2kV					f. Criteria A
Surge (See Note 8)	EN61000-4-5		and EN50155 ±2kV				f. Criteria A
Conducted Immunity	EN61000-4-6	10Vr.m.s	1001/				f. Criteria A
Power Frequency Magnetic Field	EN61000-4-8	100A/m continu	ious; 100A/m 1 second			Per	f. Criteria A

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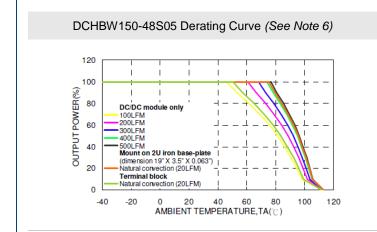
NOTES

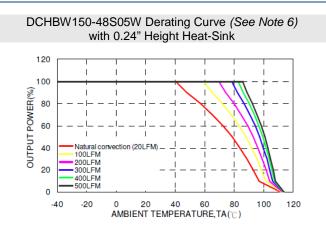
- Input source impedance: Power module will operate as specifications without external components, assuming source voltage has very low impedance and reasonable input voltage regulation. Highly inductive source impedances can affect stability of the power module. Since real-world voltage source has finite impedance, performance can be improved by adding external filter capacitor.
 24VDC & 48VDC Nominal Input Voltage recommended capacitor: Nippon Chemi-con KY series, 100µF/100V
 - 110VDC Nominal Input Voltage recommended capacitor: Ruby-con BXF series, 68µF/200V
- 2. (1) Multiple DCHBW150 series modules can be synchronized together simply by connecting the module SYNC pins together. Care should be taken to ensure the ground potential difference between the modules are minimized.
 - (2) In this configuration all of the modules will be synchronized to the highest frequency module.
 - (3) Up to three modules can be synchronized using this technique
 - (4) More relevant information in application notes
- 3. Output voltage is adjustable for 10% trim up or -20% trim down of nominal output voltage by connecting a single resistor between TRIM and +SENSE pins for trim up or between TRMI and -SENSE pins for trim down. To calculate value of the resistor R_U and R_D. For particular output voltage see page 5.
- 4. Maximum output deviation is +10% inclusive of remote sense and trim. If remote sense is not being used, the +SENSE should be connected to corresponding +OUTPUT and likewise the -SENSE should be connected to its corresponding -OUTPUT.
- 5. CTRL pin is referenced to –INPUT. To order negative logic remote on/off control add the suffix "R" to the model number. Ex. DCHBW150-48S12R
- . (1) Thermal test conditions for vertical direction are by natural convection (20LFM).
- (2) The iron base-plate dimensions are 19" x 3.5" x 0.063" (the height is EIA standard 2U)
- (3) Heat sink is optional. See "Product Options" table on page 7 for suffix options.
- 7. CASE GROUNDING: Connecting four screw bolts to shield plane will help to reduce the EMI
- An external input filter capacitor is required if the module has to meet EN61000-4-4, EN61000-4-5.
 24VDC & 48VDC Nominal Input Voltage Models: 2pcs of aluminum electrolytic capacitor (Nippon Chemi-con KY series, 220μF/100V)
 110VDC Nominal Input Models: 2pcs of aluminum electrolytic capacitor (Nippon Chemi-con KXJ series, 150μF/200V)
- 9. This series comes with several different options: negative remote on/off control, heatsinks, case pin, sync pin, pin length, terminal block, and thruhole inserts. See the Product Options table on page for 7 more ordering information.

CAUTION: This power module is not internally fused. An input line fuse must always be used.

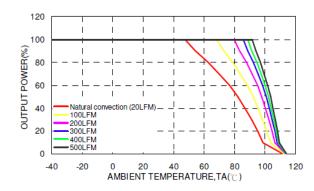
*Due to advances in technology, specifications subject to change without notice

DERATING CURVES -



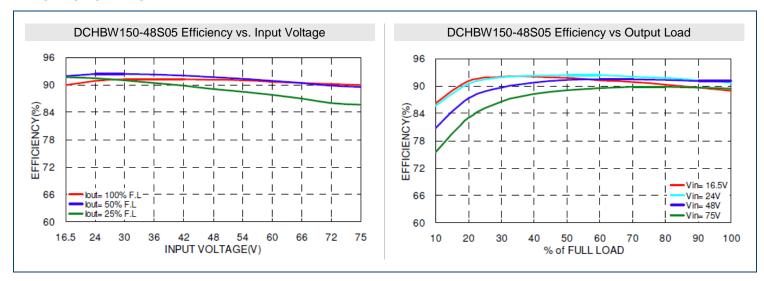


DCHBW150-48S05 Derating Curve (See Note 6) with 0.45" Height Heat-Sink





EFFICIENCY GRAPHS



OUTPUT VOLTAGE ADJUSTMENT

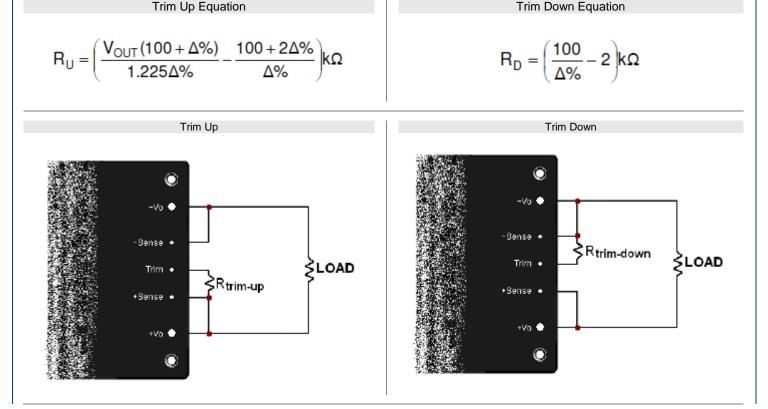
Output voltage is adjustable for 10% trim up or -20 trim down of nominal output voltage by connecting an external resistor between the Trim pin and either the +Sense pins.

With an external resistor between the Trim and -Sense pin, the output voltage set point decreases.

With an external resistor between the Trim and +Sense pin. The output voltage set point increases.

Maximum output deviation is +10% inclusive of remote sense.

The external TRIM resistor needs to be at least 1/8W of rated power.





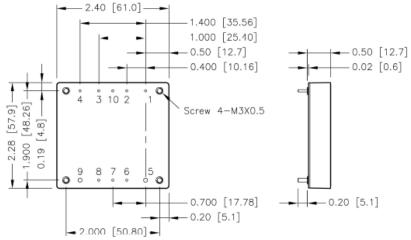
					Extern	nal Output T	rimming				
						Trim Up					
3.3V	Models										
	ΔV (%)	1	2	3	4	5	6	7	8	9	10
	Vout (V)	3.333	3.366	3.399	3.432	3.465	3.498	3.531	3.564	3.597	3.630
	RU (kΩ)	170.082	85.388	57.156	43.041	34.571	28.925	24.892	21.867	19.515	17.633
5V M	lodels										
]	ΔV (%)	1	2	3	4	5	6	7	8	9	10
	Vout (V)	5.05	5.10	5.15	5.20	5.25	5.30	5.35	5.40	5.45	5.50
	RU (kΩ)	310.245	156.163	104.803	79.122	63.714	53.442	46.105	40.602	36.322	32.898
12\/	Models										
_ [ΔV (%)	1	2	3	4	5	6	7	8	9	10
	Vout (V)	12.12	12.24	12.36	12.48	12.60	12.72	12.84	12.96	13.08	13.20
	RU (kΩ)	887.388	447.592	300.993	227.694	183.714	154.395	133.452	117.745	105.528	95.755
<i>-</i> \/											
15V 	Models ΔV (%)	1	2	3	4	5	6	7	8	9	10
	Vout (V)	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	16.50
	RU (kΩ)	1134.735	572.490	385.075	291.367	235.143	197.660	170.886	150.806	135.188	122.694
ا	\ /_!	11011100	072.100	000.010	201.007	200.110	107.000	110.000	100.000	100.100	122.001
24V [Models ΔV (%)	1	2	3	4	5	6	7	8	9	10
	Vout (V)	24.24	24.48	24.72	24.96	25.20	25.44	25.68	25.92	26.16	26.40
	RU (kΩ)	1876.776	947.184	637.320	482.388	389.429	327.456	283.190	249.990	224.168	203.510
L	110 (1122)	1070.770	347.104	037.320	402.300	303.423	327.430	200.100	240.000	224.100	200.010
28V	Models										
	ΔV (%)	1	2	3	4	5	6	7	8	9	10
	Vout (V)	28.28	28.56	28.84	29.12	29.40	29.68	29.96	30.24	30.52	30.80
	RU (kΩ)	2206.571	1113.714	749.429	567.286	458.000	385.143	333.102	294.071	263.714	239.429
10\/	Madala										
lo∧ Io∧	Models ΔV (%)	1	2	3	4	5	6	7	8	9	10
ŀ	Vout (V)	48.48	48.96	49.44	49.92	50.40	50.88	51.36	51.84	52.32	52.80
ŀ	RU (kΩ)	3855.551	1946.367	1309.973	991.776	800.857	673.578	582.665	514.480	461.447	419.020
Į.	110 (1122)	0000.001	1540.507	1000.070	331.770	300.007	373.576	002.000	317.700	701.77/	710.020
						Trim Dow					
All M	odels					THIII DOWN	•				
Ī	ΔV (%)	1	2	3	4	5	6	7	8	9	10
	RD (kΩ)	98.000	48.000	31.333	23.000	18.000	14.667	12.286	10.500	9.111	8.000
	A) / (0/)	11	12	13	14	15	16	17	18	19	20
ŀ	ΔV (%)	11		1.0							



MECHANICAL DRAWINGS

Through Hole Case

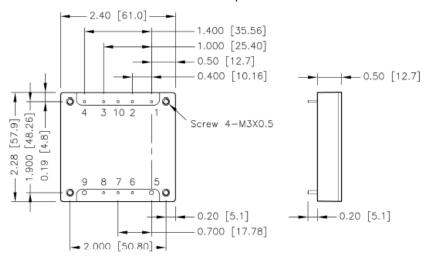
24VDC & 48VDC Nominal Input Models



BOTTOM VIEW

The screw locked torque: MAX 5.0kgf-cm/0.49N-m

110VDC Nominal Input Models



BOTTOM VIEW

The screw locked torque: MAX 3.5kgf-cm/0.34N-m

PIN CONNECTIONS

PIN	DEFINE	DIAMETER					
1	-Vin	0.04in					
2	Case (Option)	0.04in					
3	Ctrl	0.04in					
4	+Vin	0.04in					
5	-Vout	0.08in					
6	-Sense	0.04in					
7	Trim	0.04in					
8	+Sense	0.04in					
9	+Vout	0.08in					
10	Sync (Option)	0.04in					

Notes:

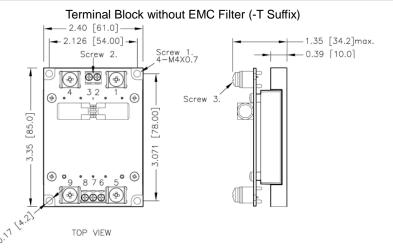
- 1. All dimensions in inch [mm]
- 2. Tolerance: x.xx±0.02 [x.x±0.5] x.xxx±0.01 [x.xx±0.25]
- 3. Pin pitch tolerance ±0.01 [0.25]
- 4. Pin dimension tolerance ±0.004 [0.10]

Product Options			Product Options			
Negative Remote ON/OFF Logic	0.200" pin length	R		H=0.45" Vertical	Н	
Negative Remote ON/OFF Logic	0.145" pin length	RL	Heatsink	H=0.24" Horizontal	H1	
Desitive Demote ON/OFF Legis	0.200" pin length	None	пеаізііік	H=0.24" Vertical	H2	
Positive Remote ON/OFF Logic	0.145" pin length	S		H=0.45" Horizontal	H3	
Thru-Hole Inserts (No Thread)	Ø0.126 thru-hole (no thread) inserts	TH	Terminal	No EMC Filter	Т	
Sync Pin		SY	Block	EMC Filter ⁽¹⁾	TF	
Case Pin		CP	DIOCK	EMC Filter that can be connected to PE ⁽¹⁾	TF1	

(1) Models with EMC filters (suffix "TF" and "TF1") meet EN55032 Class A



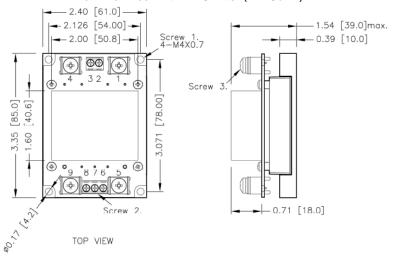
Terminal Block Options



TERMINAL CONNECTION

. =	= 0 0= 0 0
NO.	DEFINE
1	-Vin
2	NC
3	Ctrl
4	+Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

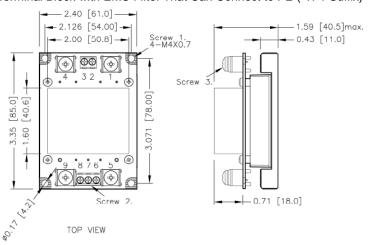
Terminal Block with EMC Filter (-TF Suffix)



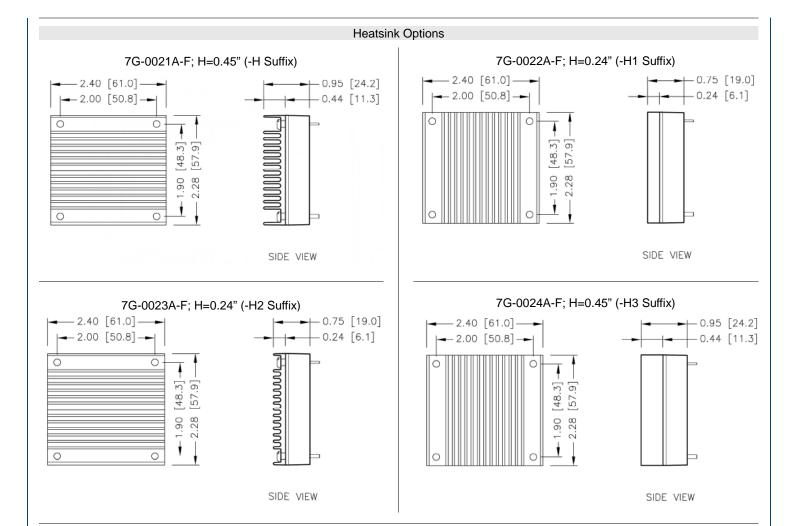
Notes:

- 1. All dimensions in inch [mm]
- 2. Tolerance: x.xx±0.02 [x.x±0.5] x.xxx±0.01 [x.xx±0.25]
- 3. Screw 1 locked torque: MAX 11.2kgf-cm/1.10N-m
- Screw 2 locked torque: MAX 5.2kgf-cm/0.51N-m
- 5. Screw 3 locked torque: MAX 16.8kgf-cm/1.65N-m

Terminal Block with EMC Filter That Can Connect to PE (-TF1 Suffix)







Notes:

- 1. All dimensions in inch [mm]
- 2. Tolerance: x.xx±0.02 [x.x±0.5] x.xxx±0.01 [x.xx±0.25]

FUSE CONSIDERATION

This power module is not internally fused. An input line fuse must always be used.

This encapsulated power module can be used in a wide variety of applications, ranging from simple stand-alone operation to an integrated part of sophisticated power architecture.

The maximum flexibility, internal fusing is not included; however, to achieve maximum safety and system protection, always use an inpulline fuse.

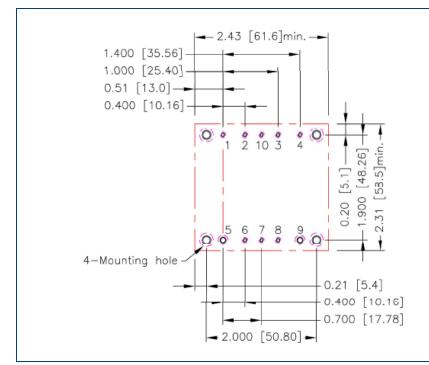
Suggested input line fused are below:

Model	Fuse Rating (A)	Fuse Type
DCHBW150-24Sxx	25	Fast Acting
DCHBW150-48Sxx	15	Fast Acting
DCHBW150-110Sxx	8	Fast Acting

The table based on the information provided in this data sheet on inrush energy and maximum DC input current at low Vin.



RECOMMENDED PAD LAYOUT



Notes:

- 1. All dimensions in inch [mm]
- 2. Pad Size (Lead free recommended)
- 3. Through Hole 1,2,3,4,6,7,8,10: Φ0.051 [1.30]
- 4. Through Hole 5, 9: Φ0.091 [2.30]
- 5. Through Hole of Mounting: Φ0.126 [3.20]
- 6. Top View Pad 1,2,3,4,6,7,8,10: Φ0.064 [1.63]
- 7. Top View Pad 5, 9: Ф0.113 [2.88]
- 8. Top View Pad of Mounting: Φ0.157 [4.00]
- 9. Bottom View Pad 1,2,3,4,6,7,8,10: Φ0.102 [2.60]
- 10. Bottom View Pad 5,9: Φ0.181 [4.60]
- 11. Bottom View Pad of Mounting: Φ0.252 [6.40]

THERMAL CONSIDERATIONS -

The power module operates in a variety of thermal environments.

However, sufficient cooling should be provided to help ensure reliable operation of the unit.

Heat is removed by conduction, convection, and radiation to the surrounding environment.

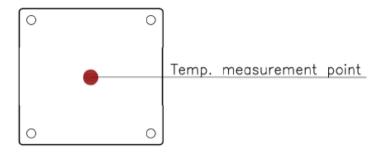
Proper cooling can be verified by measuring the point as the figure below.

The temperature at this location should not exceed 115°C.

When operating, adequate cooling must be provided to maintain the test point temperature at or below 115°C.

Although maximum point temperature of the power modules is 115°C, you can limit this temperature to a lower value for extremely high reliability.

- •Thermal test condition with vertical direction by natural convection (20LFM)
- •The iron base-plate dimension is 19" x 3.5" x 0.063" (The height is EIA standard 2U)
- •The heat-sink is optional and P/N: 7G-0021A-F, 7G-0022A-F, 7G-0023A-F, 7G-0024A-F

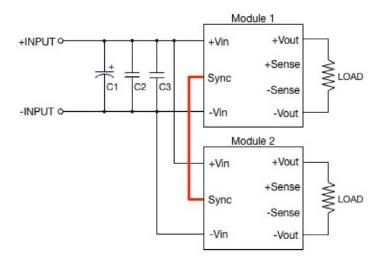


BASE PLATE

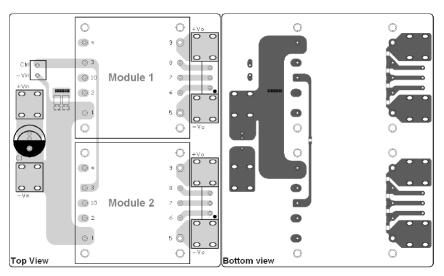


SYNCHRONOUS PIN

Multiple modules can be synchronized together simply by connecting the module SYNC pins together.



Synchronous Circuits



Recommended Layouts

24V & 48V Nominal Input Models

Component	Value	Voltage	Reference
C1	220µF	100V	Nippon Chemi-Con KY Series
C2, C3	2.2µF	100V	1812 MLCC

110V Nominal Input Models

Component	Value	Voltage	Reference
Ca	150µF	200V	Nippon Chemi-Con KXJ-Series
C2, C3	1μF	250V	1812 MLCC

- •Care should be taken to ensure the ground potential differences between modules are minimized.
- •All of the modules in this configuration will be synchronized to the highest frequency module.
- •Up to three module can be synchronized using this technique.



MODEL NUMBER SETUP -

Through Hole Models

DCHBW	150	-	24	S	12	-	P	SY
Series Name	Output Power		Input Voltage	Output Quantity	Ouptut Voltage		Remote On/Off + Pin Length	Sync Pin
	150: 150 Watts		24: 8.5~36VDC 9~36VDC 48: 16.5~75VDC 110: 43~160VDC	S: Single	3.3: 3.3VDC 05: 5VDC 12: 12VDC 15: 15VDC 24: 24VDC 28: 28VDC 48: 48VDC		None: Positive Logic, 0.200" Pin Length S: Positive Logic, 0.145" Pin Length R: Negative Logic, 0.200" Pin Length RL: Negative Logic, 0.145" Pin Length	SY: Sync Pin

CP	TH	HS				
Case Pin	Through-Hole Inserts	Heatsink				
CP : Case Pin	TH: No Thread	HS: 7G-0021A-F; H=0.45" H1: 7G-0022A-F; H=0.24" H2: 7G-0023A-F; F=0.24" H3: 7G-0024A-F; F=0.45"				

MODEL NUMBER SETUP -

Terminal Block Types

DCHBW	150	-	24	S	12	-	Р	TF
Series Name	Output Power		Input Voltage	Output Quantity	Ouptut Voltage		Remote On/Off + Pin Length	Terminal Block
	150: 150 Watts		24: 8.5~36VDC	S: Single	3.3 : 3.3VDC		None: Positive Logic, 0.200" Pin Length	T: No EMC Filter
			9~36VDC		05 : 5VDC		Pr Nagativa Lagia	TF: EMC Filter ⁽¹⁾
			48: 16.5~75VDC		12 : 12VDC		R: Negative Logic, 0.200" Pin Length	TF1:EMC Filter that can be
			110: 43~160VDC		15 : 15VDC			connected to PE ⁽¹⁾
					24 : 24VDC			
					28 : 28VDC			
					48 : 48VDC			

Notes:

1. These integraded filters meet EN55032 Class A



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 ISO9001-2008 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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