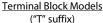


24V & 48V Input Models

110V Input Models





Terminal Block w/ EMC Filter ("TF" suffix)



Terminal Block w/ EMC Filter ("TF1" suffix)



Size: 3.35 x 2.40 x 1.53 inches

Size: 2.40 x 2.28 x 0.50 inches

• Negative Logic Remote On/Off

• Terminal Block with Aluminum

Terminal Block with Anodized

Aluminum Base-plate and EMC

Filter, Can be Connected to PE

Base-plate and EMC Filter

Size: 2.40 x 2.28 x 0.50 inches

Size: 3.35 x 2.40 x 1.27 inches

FEATURES

- Railway Applications
- Soft-Start
- 4:1 Ultra Wide Input Voltage Ranges
- 82.5~100.8 Watts Output Power
- High Efficiency up to 93%
- Under Voltage Lockout
- No Minimum Load Requirements
- Adjustable Output Voltage
- Remote On/Off Control
- Industry Standard Half-Brick Footprint

- Single Outputs Ranging from 3.3VDC to 48VDC
- 2250VDC Basic Insulation for 24VDC & 48VDC Nominal Input Models
- 3000VAC Reinforced Insulation for 110VDC Nominal Input Models
- Threaded Inserts and Thru-Hole Inserts Available
- Short Circuit, Over Voltage, Over Current, and Over Temp. Protection
- Six-Sided Shielding for 24VDC & 48VDC Input Models
- Compliant to RoHS EU Directive 2011/65/EU
- CE Mark Meets 2006/95/EC, 2011/95/EC, and 2004/108/EC
- UL60950-1, EN60950-1, IEC60950-1, & EN50155 Safety Approvals
- Several Mechanical Options Available

APPLICATIONS

OPTIONS

• Pin Length

Heatsinks

Thru-Hole Inserts

Terminal Block

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

Military Applications

DESCRIPTION

The DCHBW100 series of DC/DC power converters provides up to 100.8 Watts of output power in 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 93%, adjustable output voltage, and remote on/off control. These converters also have short circuit, over voltage, over current, and over temperature protection. The DCHBW100 series is RoHS compliant and has UL60950-1, EN60950-1, IEC60950-1, and EN50155 safety approvals. Several different options are available for this series including negative remote on/off control, terminal block, pin length, heatsinks, and thru-hole inserts.

			МО	DEL SELEC	TION TABLE				
Model Number	Input Voltage Range	Output Voltage	Output Min Load	Current Max Load	Ripple & Noise	No Load Input Current	Output Power	Maximum Capacitive Load	Efficiency
DCHBW100-24S3.3	24 VDC	3.3 VDC	0mA	25A	75mVp-p	20mA	82.5W	75,700µF	91%
DCHBW100-24S05	(9 - 36 VDC)	5 VDC	0mA	20A	75mVp-p	25mA	100W	40,000μF	93%
DCHBW100-24S12		12 VDC	0mA	8.4A	100mVp-p	25mA	100.8W	7000µF	90%
DCHBW100-24S15		15 VDC	0mA	6.7A	100mVp-p	25mA	100.5W	4460µF	91%
DCHBW100-24S24	24 VDC	24 VDC	0mA	4.2A	200mVp-p	25mA	100.8W	1750μF	90%
DCHBW100-24S28	(8.5 - 36 VDC)	28 VDC	0mA	3.6A	200mVp-p	25mA	100.8W	1280µF	90%
DCHBW100-24S48	-	48 VDC	0mA	2.1A	300mVp-p	35mA	100.8W	430µF	90%
DCHBW100-48S3.3		3.3 VDC	0mA	25A	75mVp-p	15mA	82.5W	75,700μF	91%
DCHBW100-48S05		5 VDC	0mA	20A	75mVp-p	15mA	100W	40,000μF	93%
DCHBW100-48S12	10.1/D.6	12 VDC	0mA	8.4A	100mVp-p	20mA	100.8W	7000μF	90%
DCHBW100-48S15	48 VDC	15 VDC	0mA	6.7A	100mVp-p	20mA	100.5W	4460μF	91%
DCHBW100-48S24	(16.5 - 75 VDC)	24 VDC	0mA	4.2A	200mVp-p	20mA	100.8W	1750μF	90%
DCHBW100-48S28		28 VDC	0mA	3.6A	200mVp-p	20mA	100.8W	1280μF	92%
DCHBW100-48S48		48 VDC	0mA	2.1A	300mVp-p	25mA	100.8W	430µF	91%
DCHBW100-110S3.3		3.3 VDC	0mA	25A	75mVp-p	10mA	82.5W	75,700μF	87%
DCHBW100-110S05		5 VDC	0mA	20A	75mVp-p	10mA	100W	40,000μF	90%
DCHBW100-110S12	110 VDC	12 VDC	0mA	8.4A	100mVp-p	10mA	100.8W	7000μF	90%
DCHBW100-110S15	(43 - 160 VDC)	15 VDC	0mA	6.7A	100mVp-p	10mA	100.5W	4460μF	90%
DCHBW100-110S24	(45 - 100 VDC)	24 VDC	0mA	4.2A	200mVp-p	10mA	100.8W	1750μF	90%
DCHBW100-110S28		28 VDC	0mA	3.6A	200mVp-p	10mA	100.8W	1280μF	90%
DCHBW100-110S48		48 VDC	0mA	2.1A	300mVp-p	10mA	100.8W	430μF	91%



SPECIFICATIONS: DCHBW100 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.

	We reserve the right to change specifications b	ased on technological ad	vances.					
SPECIFICATION	TEST CONDITIONS		Min	Тур	Max	Unit		
INPUT SPECIFICATIONS								
	24VDC nominal input models	3.3Vout & 5Vout	9	24	36			
Input Voltage Range	24VDC Hoffilliai input models	Others	8.5	24	36	VDC		
input voitage hange	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		8.1			
Shutdown Voltage	48VDC nominal input models		15.5		16.3	VDC		
Shataown voltage	110VDC nominal input models		33.0		36.0	VDC		
	24VDC nominal input models		33.0		50.0			
Inner Commo Valtana (1000 mars)	·					VDC		
Input Surge Voltage (1sec, max.)	48VDC nominal input models				100	VDC		
	110VDC nominal input models				185			
Input Current	No Load				Table			
Input Filter (See Note 1)				Pi t	ype			
OUTPUT SPECIFICATIONS								
Output Voltage				See	Table			
Voltage Accuracy			-1.0		+1.0	%		
Line Regulation	Low line to high line at full load		-0.1		+0.1	%		
Load Regulation	No load to full load		-0.1		+0.1	%		
Voltage Adjustability (See Note 6)	Maximum output deviation is inclusive of remo	te sense	-20		+10	%		
Remote Sense (See Note 2)	% of nominal Vout	ie sense	-20		10	%		
	% or nominal vout			C		90		
Output Power					Table			
Output Current				See	Table			
Minimum Load			0			%		
Maximum Capacitive Load	Minimum input and constant resistive load			See	Table			
	With a 1µF/25V X7R MLCC and a 22µF/25V POS	-CAP 3.3Vout & 5Vout		75				
S	With a 1µF/25V X7R MLCC and a 22µF/25V POS	-CAP 12Vout & 15Vout		100		1		
Ripple & Noise (20MHz bandwidth)	With a 4.7μF/50V X7R MLCC		200		mVp-p			
	With a 2.2µF/100V X7R MLCC	24Vout & 28Vout 48Vout		300				
Transient Response Recovery Time	25% load step change	101041		200	250	μs		
Transient nesponse necovery time	25 70 Toda Step Change	Power Up		75	250	μ3		
Start-Up Time	Constant resistive load	Remote On/Off		75		ms		
T		Refflote Off/Off	0.02	/3	. 0.02	0/ /00		
Temperature Coefficient			-0.02		+0.02	%/°C		
REMOTE ON/OFF CONTROL			1					
Positive Logic (standard)	Referenced to –Input pin	DC/DC ON		•	3 ~ 12VDC			
	Park	DC/DC OFF) ~ 1.2VDC			
Negative Logic (optional)	Referenced to –Input pin	DC/DC ON		Open or 3	3 ~ 12VDC			
l l l l l l l l l l l l l l l l l l l	neierenced to -input pin	DC/DC OFF		Short or 0) ~ 1.2VDC			
Input Current of CTRL Pin	Nominal Vin		-0.5		1	mA		
Remote OFF Input Current	Nominal Vin			3		mA		
PROTECTION								
Short Circuit Protection			Co	ntinuous, aut	tomatic reco	verv		
	24VDC	& 48VDC Input Models	120		150	l Í		
Over Load Protection	% of rated lout: biccup mode	Input Models	120	150	130	%		
Over Voltage Protection	% of nominal Vout; hiccup mode	. Input Models	115	150	130	%		
	% of norminal vout, fliccup mode		113	, 11E	130	°C		
Over Temperature Protection				+115				
ENVIRONMENTAL SPECIFICATIONS								
Operating Case Temperature	Base-plate		-40		+115	°C		
Storage Temperature	Terminal block types		-40		+105	°C		
	Others		-55		+125			
	Vertical direction by natural convection (20LFM)		6.7				
Thermal Impedance (See Note 3)	Module without assembly options			0.7		0C /\AI		
mermai impedance (see Note s)	0.24" height heatsink			5.4		°C/W		
	0.45" height heatsink			4.7				
Relative Humidity			5		95	% RH		
Thermal Shock				MII -ST	D-810F	,		
Shock					IIL-STD-810F			
Vibration	MILLIDDIK 217FT- 25°C 5.III1/C/D	ad anythenur +\	400 700	ENO 13/3, IV	IIL-STD-810F			
MTBF	MIL-HDBK-217F Ta=25°C, full load (G/B, control	eu environment)	408,700			hours		



SPECIFICATIONS: DCHBW100 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.

Т	EST CONDITIONS		Min	Тур	Max	Unit			
			See Table						
24VDC & 48VDC nominal in	out models		225	250	275	kHz			
110VDC nominal input mod	els		270	300	330	kHz			
1 minute (reinforced insulat	1 minute (vainfavand insulation)					VAC			
		Input to Case	1500			VAC			
110VDC Hommar inpactinoa	CIS		1500			VAC			
1 minute (basic insulation)			2250			VDC			
,	out models		1600			VDC			
24VDC & 48VDC Hominaring	out models	Output to Case	1600			VDC			
500VDC			1			GΩ			
					2500	pF			
Standard models			3.70oz (105g)						
"T" suffix models			8.29oz (235g)						
"TF" suffix models					9.88oz (280g)				
"TF1" suffix models			10.12oz (287g)						
Standard models			2.40 x 2.28 x 0.50 inches (61.0 x 57.9 x 12.7 mm)						
"T" suffix models	"T" suffix models					3.35 x 2.40 x 1.27 inches (85.0 x 61.0 x 32.3 mm)			
"TF" suffix models	"TF" suffix models				3.35 x 2.40 x 1.47 inches (85.0 x 61.0 x 37.3 mm)				
"TF1" suffix models			3.35 x 2.40 x 1.53 inches (85.0 x 61.0 x 38.8 mm)						
24VDC & 48VDC nominal in	out models		Metal						
110VDC nominal input mod	els		Aluminum base-plate with plastic case						
24VDC & 48VDC nominal in	out models		FR4 PCB						
			Silicon (UL94-V0)						
24VDC & 48VDC nominal in	out models			Six-s	sided				
			IEC6095	0-1, UL60950	0-1, EN60950				
EN55011, EN55022	EN55011, EN55022					Class A Class B			
EN61000-4-2	Air ±8kV an	d Contact ±6kV			Pe	rf. Criteria A			
EN61000-4-3	20 V/m				Pe	rf. Criteria A			
EN61000-4-4	±2kV					rf. Criteria A			
EN61000-4-5	EN55024 ±2	2kV and EN50155 ±2kV	Perf. Criteria						
EN61000-4-6					Pe	rf. Criteria A			
	Nominal input voltage and five 24VDC & 48VDC nominal input mod 1 minute (reinforced insulat 110VDC nominal input mod 1 minute (basic insulation) 24VDC & 48VDC nominal input mod 500VDC Standard models "T" suffix models "TF" suffix models "TF	Nominal input voltage and full load 24VDC & 48VDC nominal input models 110VDC nominal input models 1 minute (reinforced insulation) 110VDC nominal input models 1 minute (basic insulation) 24VDC & 48VDC nominal input models 500VDC Standard models "T" suffix models "TF" suffix models "TF" suffix models "TF" suffix models "Tr" suffix models "TF" suffix models "AVDC & 48VDC nominal input models 110VDC nominal input models 24VDC & 48VDC nominal input models 24VDC & 48VDC nominal input models EN55011, EN55022 EN61000-4-2 EN61000-4-3 EN61000-4-3 EN61000-4-5 EN55024 ±2kV EN61000-4-5 EN55024	24VDC & 48VDC nominal input models 110VDC nominal input models 1 minute (reinforced insulation) 110VDC nominal input models 1 minute (basic insulation) 24VDC & 48VDC nominal input models Standard models "T" suffix models "TF" suffix models 24VDC & 48VDC nominal input models 110VDC nominal input models 24VDC & 48VDC nominal input models EN55011, EN55022 EN61000-4-2 Air ±8kV and Contact ±6kV EN61000-4-3 EN61000-4-4 ±2kV EN61000-4-5 EN55024 ±2kV and EN50155 ±2kV	Nominal input voltage and full load 24VDC & 48VDC nominal input models 225 110VDC nominal input models 270 1 minute (reinforced insulation) Input to Case 1500 Output to Case 1500 Output to Case 1500 Input to Output 2250 Input to Output 2250 Input to Output 1000 Input to Case 1600 Output to Case 16	Nominal input voltage and full load See*	Nominal input voltage and full load 24VDC & 48VDC nominal input models 225 250 275 2			

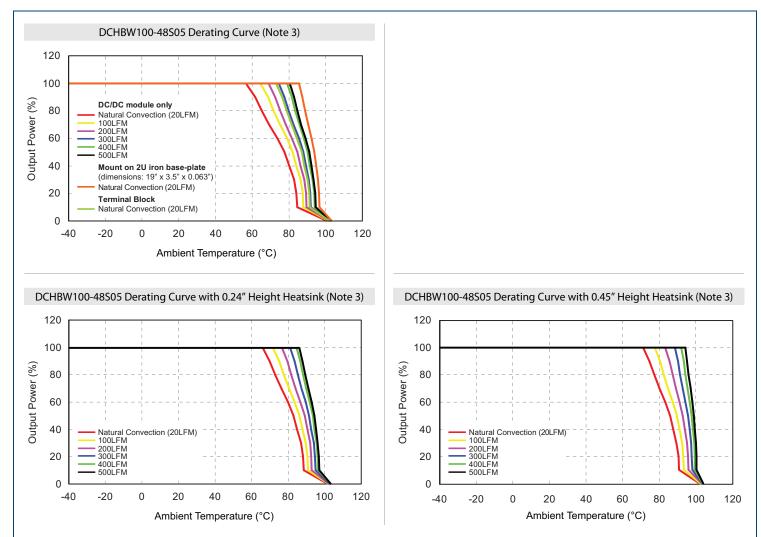
NOTES

- 1. Input Source Impedance: These converters will operate under all listed specifications without external components assuming that the source voltage has very low impedance and reasonable input voltage regulation. Highly inductive source impedances can affect the stability of the converter. Since real world voltage sources have finite impedance, performance can be improved by adding an external filter capacitor.
 - For 24VDC & 48VDC nominal input models, we recommend Nippon chemi-con KY series, 100µF/100V.
 - For 110VDC nominal input models, we recommend Ruby-con BXF series, 68µF/200V.
- 2. Maximum output deviation is +10% inclusive of remote sense and trim. If remote sense is not being used the +SENSE should be connected to its corresponding +OUTPUT and likewise the -SENSE should be connected to its corresponding -OUTPUT.
- 3. (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 the "Model Number Setup" table on page 8 for suffix options.
- 4. The DCHBW100 standard models (without assembly options) can only meet EN55011, EN55022 Class A or Class B with external components added.
- 5. An external input filter capacitor is required if the module has to meet EN61000-4-4, EN61000-4-5. For 24VDC & 48VDC nominal input models, we recommend connecting two aluminum electrolytic capacitors (Nippon chemi-con KY series, 220µF/100V) in parallel. For 110VDC nominal input models, we recommend connecting three aluminum electrolytic capacitors (Nippon chemi-con KXJ series, 150µF/200V) in parallel.
- 6. 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 TRIM and -SENSE pins for trim down. To calculate the value of the resistor R₀ and R₀ for a particular output voltage see page 6.
- 7. CASE GROUNDING: EMI can be reduced when you connect the four screw bolts to the shield plane.
- 8. This series comes with several different options: negative remote on/off control, heatsinks, case pin, sync pin, pin length, terminal block, and thru-hole inserts. See the "Model Number Setup" table on page 8 for more ordering information.

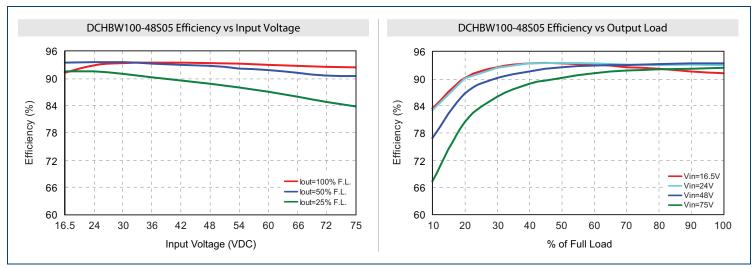
CAUTION: This power converter is not internally fused. An input line fuse must always be used.



DERATING CURVES -

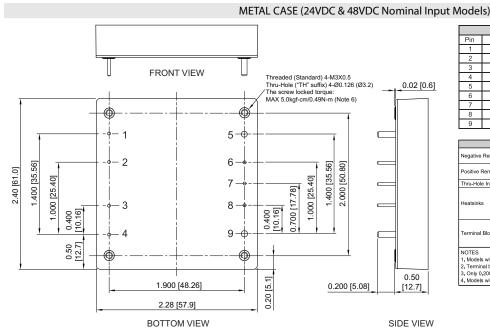


EFFICIENCY GRAPHS





MECHANICAL DRAWINGS -



	PIN CONNECTIONS					
Pin	Define	Diameter				
1	- INPUT	0.04 in.				
2	CASE	0.04 in.				
3	CTRL	0.04 in.				
4	+ INPUT	0.04 in.				
5	- OUTPUT	0.08 in.				
6	- SENSE	0.04 in.				
7	TRIM	0.04 in.				
8	+ SENSE	0.04 in.				
9	+ OUTPUT	0.08 in.				

EXTERNAL OUTPUT TRIMMING				
Output can be externally trimmed by using the method shown below.				
TRIM UP	TR I M DOWN			
7 ○ ←	6 ○ ←			
8 ⊶	7 ⊶			

	PRODUCT OPTIONS		SUFFIX	
Negative Remote On/Off Logic	0.200" pin length	R		
Negative Remote On/Oir Logic	0.145" pin length	RL		
Positive Remote On/Off Logic	0,200" pin length			
Positive Remote On/Oil Logic	0.145" pin length		S	
Thru-Hole Inserts	Ø0.126 thru-hole (no thread) inse	TH (1)		
	H = 0.45" Vertical Fin	P/N: 7G-0021A-F	Н	
Heatsinks	H = 0.24" Horizontal Fin	P/N: 7G-0022A-F	H1	
neatsinks	H = 0.24" Vertical Fin	P/N: 7G-0023A-F	H2	
	H = 0.45" Horizontal Fin P/N: 7G-0024A-F		H3	
	Terminal Block	,	TF (2)(3)(4)	
Terminal Block	Terminal Block with Aluminum Base-plate and EMC Filter			
	Terminal block with anodized aluminum base-plate and EMC filter, can be connected to protective earth (PE)			

- NOTES
 Models with thru-hole inserts cannot be equipped with a heatsink.
 Terminal block models (suffix "T", "TF", and "TF1") cannot be equipped with a heatsink.
 3, Ohly (200") in length is available with terminal block options.
 Models with EMC filter (suffix "TF" and "TF1") meet EN55011, EN55022 Class A.

NOTES:

- 1. UNIT: INCHES [MM]
- 2. TOLERANCE: X.XX±0.02 [X.X±0.5] X.XXX±0.010 [X.XX±0.25]
- 3. PIN PITCH TOLERANCE: ±0.01 [±0.25] 4. PIN DIMENSION TOLERANCE: ±0.004 [±0.1]
- 5. MOUNTING SCREWS SHOULD ALWAYS BE USED
- 6. CASE GROUNDING: EMI CAN BE REDUCED WHEN THE FOUR SCREW BOLTS ARE CONNECTED TO THE SHIELD PLANE
- 7. UNIT COMES WITH EITHER M3x0.5 THREADED-THRU INSERTS OR FOR Ø.126 THRU-HOLE ADD THE "TH" SUFFIX TO MODEL NUMBER
- 8. FOR HEATSINK SEE THE "PRODUCT OPTIONS" TABLE FOR DIFFERENT OPTIONS NOTE: THRU-HOLE MODELS CANNOT BE EQUIPPED WITH A HEATSINK
- 9. FOR TERMINAL BLOCK OPTIONS SEE PAGE 6
- 10. DIMENSIONS ARE FOR REFERENCE ONLY

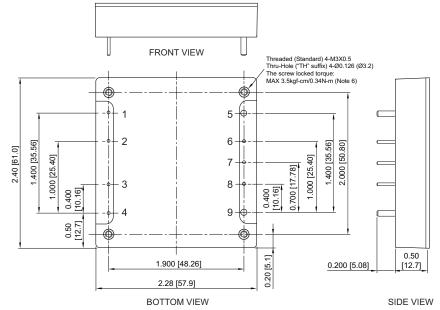
UNLESS OTHERWISE SPECIFIED ALL DIMENSONS ARE IN INCHES
[XX] ARE IN MILLIMETERS
APPLIED TOLERANCES:
ANGLES = ±1°

.XX = ±.02[0.5] .XXX = ±.010[0.25]
DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION



PLASTIC CASE (110VDC Nominal Input Models)



	PIN CONNECTIONS					
Pin	Define	Diameter				
1	- INPUT	0.04 in.				
2	CASE	0.04 in.				
3	CTRL	0.04 in.				
4	+ INPUT	0.04 in.				
5	- OUTPUT	0.08 in.				
6	- SENSE	0.04 in.				
7	TRIM	0.04 in.				
8	+ SENSE	0.04 in.				
9	+ OUTPUT	0.08 in.				

	using the method shown below.				
TR I M UP	TRIM DOWN				
7 ○ ←	6 ○ ←				
8 ०←	7 ⊶				

EXTERNAL OUTPUT TRIMMING Output can be externally trimmed by

	PRODUCT OPTIONS		SUFFIX	
Negative Remote On/Off Logic	0.200" pin length		R	
Negative Remote On/On Logic	0.145" pin length			
Positive Remote On/Off Logic	0.200" pin length		None	
Positive Remote On/Oil Logic	0.145" pin length		S	
Thru-Hole Inserts	Ø0.126 thru-hole (no thread) inse	TH (1)		
	H = 0.45" Vertical Fin	P/N: 7G-0021A-F	Н	
Heatsinks	H = 0.24" Horizontal Fin	P/N: 7G-0022A-F	H1	
neatsinks	H = 0.24" Vertical Fin	P/N: 7G-0023A-F	H2	
	H = 0.45" Horizontal Fin P/N: 7G-0024A-F		H3	
	Terminal Block		T (2)(3)	
Terminal Block	Terminal Block with Aluminum Ba	TF (2)(3)(4)		
	Terminal block with anodized alur filter, can be connected to protect	TF1 ⁽²⁾⁽³⁾⁽⁴⁾		

- NOTES

 I. Models with thru-hole inserts cannot be equipped with a heatsink.

 2. Terminal block models (suffix 'T', 'TF', and 'TF1') cannot be equipped with a heatsink.

 3. Only 0.200° pin length is available with terminal block options.

 4. Models with EMC filter (suffix 'TF' and 'TF1') meet EN55011, EN55022 Class A.

NOTES:

- 1. UNIT: INCHES [MM]
- 2. TOLERANCE: X.XX±0.02 [X.X±0.5] X.XXX±0.010 [X.XX±0.25]
- 3. PIN PITCH TOLERANCE: ±0.01 [±0.25]
- 4. PIN DIMENSION TOLERANCE: ±0.004 [±0.1]
- 5. MOUNTING SCREWS SHOULD ALWAYS BE USED
- 6. CASE GROUNDING: EMI CAN BE REDUCED WHEN THE FOUR SCREW BOLTS ARE CONNECTED TO THE SHIELD PLANE
- 7. UNIT COMES WITH EITHER M3x0.5 THREADED-THRU INSERTS OR FOR Ø.126 THRU-HOLE ADD THE "TH" SUFFIX TO MODEL NUMBER
- 8. FOR HEATSINK SEE THE "PRODUCT OPTIONS" TABLE FOR DIFFERENT OPTIONS NOTE: THRU-HOLE MODELS CANNOT BE EQUIPPED WITH A HEATSINK
- 9. FOR TERMINAL BLOCK OPTIONS SEE PAGE 6
- 10. DIMENSIONS ARE FOR REFERENCE ONLY

UNLESS OTHERWISE SPECIFIED
ALL DIMENSONS ARE IN INCHES
[XX] ARE IN MILLIMETERS
APPLIED TOLERANCES:
ANGLES = ±1°
.XX = ±.02[0.5] .XXX = ±.010[0.25]

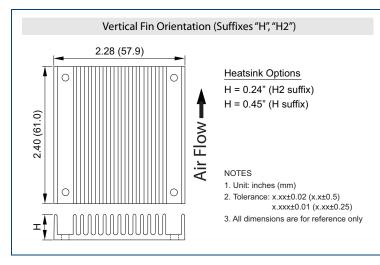
DO NOT SCALE DRAWING TERPRET DIMENSION AND TOLERANCE PER ASME Y14.5M - 1994

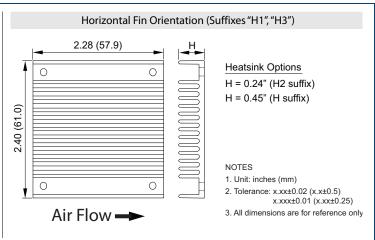
THIRD ANGLE PROJECTION



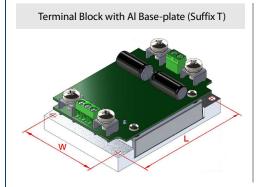


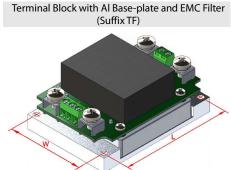
HEATSINK OPTIONS -





TERMINAL BLOCK OPTIONS







Terminal Block Type	Т	TF	TF1		
Weight	8.29oz (235g)	9.88oz (280g)	10.12oz (287g)		
Dimensions	3.35 x 2.40 x 1.27 inches (85.0 x 61.0 x 32.3 mm)	3.35 x 2.40 x 1.47 inches (85.0 x 61.0 x 37.3 mm)	3.35 x 2.40 x 1.53 inches (85.0 x 61.0 x 38.8 mm)		
Thru-Hole (WxL)	2 126 x 3 071 inches (54 00 x 78 00 mm), 4-Ø0 17 inches (Ø4 3mm)				

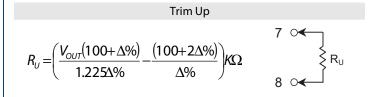
NOTES

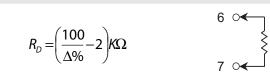
04/30/2014

- 1. Terminal block models (suffix "T", "TF", and "TF1") cannot be equipped with a heatsink.
- 2. Only 0.200" pin length is available with terminal block options.
- 3. Models with EMC filter (suffix "TF" and "TF1") meet EN55011, EN55022 Class A.

OUTPUT VOLTAGE ADJUSTMENT -

Output 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 or -SENSE pins. With an external resistor between the TRIM and -SENSE pin, the output voltage set decreases. With an external between the TRIM and -SENSE pin, the output voltage set point increases. Maximum output deviation is +10% inclusive of remote sense. The value of the external resistor can be obtained by the equations below. The external TRIM resistor needs to be at least 1/8W resistor.

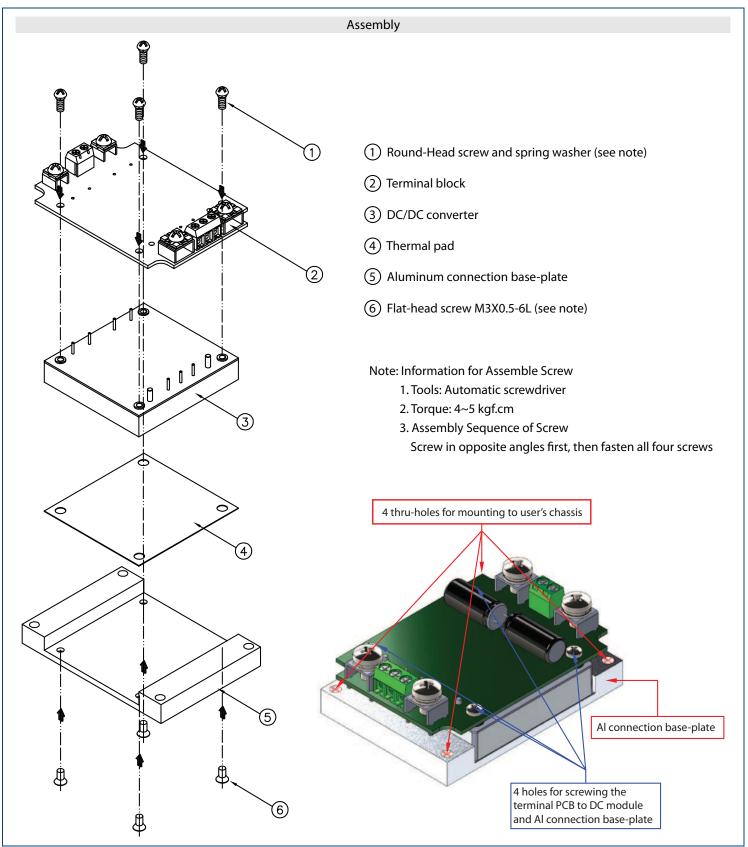




Trim Down



APPLICATION NOTES -





MODEL NUMBER SETUP -

DCHBW	100	-	24	S	12	R
Series Name	Output Power		Input Voltage	Output Quantity	Ouptut Voltage	Remote On/Off & Pin Length
	100: 100 Watts		24: 8.5-36 VDC 9-36 VDC	S: single	3.3: 3.3 VDC 05: 5 VDC	None: positive Logic, 0.200" pin length S: positive Logic, 0.145" pin length
			48: 16.5-75 VDC 110: 43-160 VDC		12: 12 VDC 15: 15 VDC 24: 24 VDC	R: negative Logic, 0.200" pin length RL: negative Logic, 0.145" pin length
					28: 28 VDC 48: 48 VDC	

TH	Н	TF
Thru-Hole Inserts (1)	Heatsink (1)(2)	Terminal Block (2) (3) (4)
None: threaded inserts TH: Ø0.126 thru-hole inserts (1)	None: no heatsink H: 0.45" vertical H1: 0.24" horizontal H2: 0.24" vertical H3: 0.45" horizontal	None: no terminal block T: Terminal block with aluminum base-plate TF: Terminal block with aluminum base-plate and EMC filter TF1: Terminal block with anodized aluminum base-plate and EMC filter, can be connected to Protective Earth (PE)

NOTES

- 1. Models with thru-hole inserts cannot be equipped with a heatsink.
- 2. Terminal block models (suffix "T", "TF", and "TF1") cannot be equipped with a heatsink.
- 3. Only 0.200" pin length is available with terminal block options.
- 4. Models with EMC filter (suffix "TF" and "TF1") meet EN55011, EN55022 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.

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