

CHB50W

25 TO 50 WATT WIDE INPUT DC-DC CONVERTERS SINGLE OUTPUT

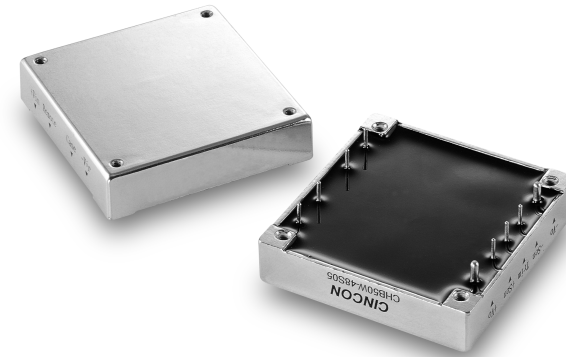


Features

- 25W-50W Isolated Output
- Efficiency to 84%
- 300KHz Switching Frequency
- 4 : 1 Input Range
- Regulated Outputs
- Continuous Short Circuit Protection
- Five-Sided Metal Case
- Industry Standard Half-Brick Package

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	%EFF	CASE
CHB50W-24S33		3.3 VDC	10 A		1785 mA	77	
CHB50W-24S05		5 VDC	10 A		2570 mA	81	
CHB50W-24S12	9-36 VDC	12 VDC	4.16 A	50 mA	2510 mA	83	HB
CHB50W-24S15		15 VDC	3.33 A		2510 mA	83	
CHB50W-24S24		24 VDC	2.08 A		2510 mA	83	
CHB50W-48S33		3.3 VDC	10 A		880 mA	78	
CHB50W-48S05		5 VDC	10 A		1270 mA	82	
CHB50W-48S12	18-75 VDC	12 VDC	4.16 A	50 mA	1240 mA	84	HB
CHB50W-48S15		15 VDC	3.33 A		1240 mA	84	
CHB50W-48S24		24 VDC	2.08 A		1240 mA	84	

NOTE : 1. Nominal Input Voltage 24, 48 VDC



Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	24V.....9-36V
	48V.....18-75V
Undervoltage lockout	24Vin power up8.8V
	power down8V
	48Vin power up17V
	power down16V
Positive Logic Remote ON/OFF ^{1,4}	
Input Filter	PI Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy :	±1% max.
Transient Response :25% Step Load Change	<500μ sec.
External Trim Adj. Range	±10%
Ripple & Noise, 20MHz BW, 3.3V & 5V	40mV RMS., max.
	100mV pk-pk, max.
	12V & 15V60mV RMS., max.
	150mV pk-pk, max.
	24V100mV RMS., max.
	240mV pk-pk, max.
Temperature Coefficient.....	±0.03%/°C
Short Circuit Protection.....	Continuous
Line Regulation ¹	±0.2% max.
Load Regulation ²	±0.2% max.
Over Voltage Protection trip Range, % Vo nom.....	115-140%
Current Limit	110% ~160% Nominal Output

GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage	Input/Output.....1500VDC min.
	Input/Case.....1500VDC min.
	Output/Case.....1500VDC min.
Isolation Resistance	10 ⁷ ohm min.
Switching Frequency	300KHz, Typ.
Operating Case Temperature	-40°C to 100°C
Storage Temperature	-55°C to +105°C
Thermal Shutdown, Case Temp.	100°C Typ.
Dimensions	2.28x2.40x0.50 inches
	(57.9x61.0x12.7 mm)
Case Material	Aluminum
Weight.....	.94g

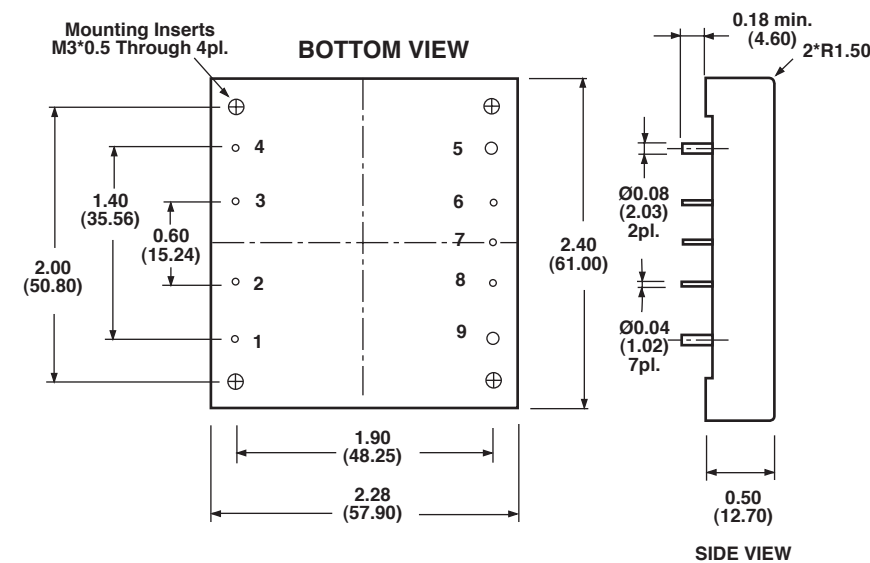
NOTE:

1. Measured From High Line to Low Line.
2. Measured From Full Load to Zero Load.
3. Logic Compatibility Open Collector Ref. to -Input.
Module ONOpen Circuit
Module OFF.....<0.8Vdc
4. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF.

CASE HB

All Dimensions In Inches(mm)

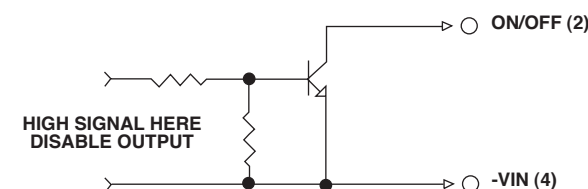
Tolerances	Inches	.XX±.02	.XXX±.01	±0.02
	Millimeters	.X±.5	.XX±.25	±0.5



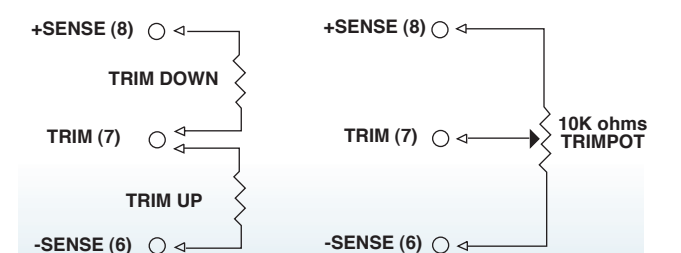
PIN CONNECTION

Pin	Function
1.	+Vin
2.	ON/OFF
3.	CASE
4.	-Vin
5.	-Vout
6.	-Sense
7.	Trim
8.	+Sense
9.	+Vout

Remote ON/OFF Control



External Output Trim



All Specifications Typical At Nominal Line, Full Load and 25 °C Unless Otherwise Noted.