S E R I E S

CHB50W

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



c UL us
E176177

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

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Änderungen vorbehalten / subject to change without notice

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range..... 24V.....9-36V
48V.....18-75V
Undervoltage lockout ..... 24Vin power up 8.8V
power down 8V
48Vin power up 17V
power down 16V
Positive Logic Remote ON/OFF[3,4]
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 & 15V ..... 60mV RMS., max.
150mV pk-pk, max.
24V .....100mV 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 .....10⁷ 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

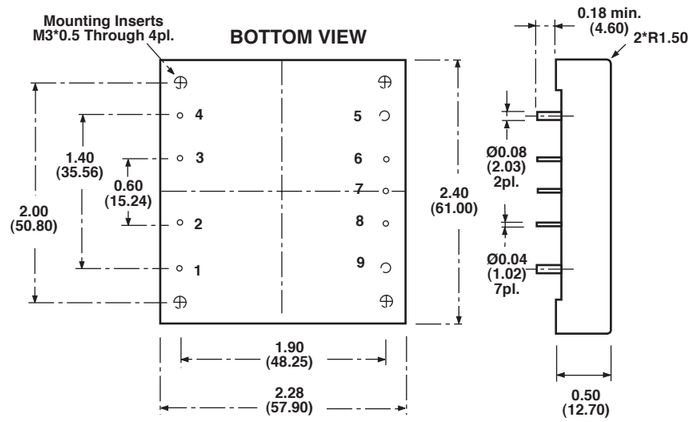
NOTE:

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 ON .....Open Circuit
   Module OFF..... <0.8Vdc
4. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF.

CASE HB

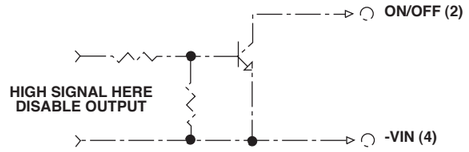
All Dimensions In Inches(mm)

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

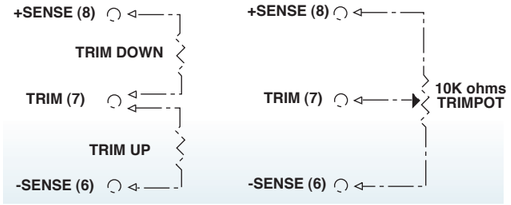


PIN CONNECTION	
Pin	Function
1.	+Vin
2.	ON/OFF
3.	CASE
4.	-Vin
5.	-Vout
6.	-Sense
7.	Trim
8.	+Sense
9.	+Vout

Remote ON/OFF Control



External Output Trim



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