S E R I E S

CHB75W

37.5 TO 75 WATT WIDE INPUT DC-DC CONVERTERS SINGLE OUTPUT

Features

- 37.5W-75W 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	UTPUT CURRENT	O NPUT CURRENT NO LOAD	FULL LOAD	EFF	CASE
CHB75W-48S3V3	18-75 VDC	3.3 VDC	15 A	50 mA	1320 mA	78	HB
CHB75W-48S05	18-75 VDC	5 VDC	15 A	50 mA	1905 mA	82	HB
CHB75W-48S12	18-75 VDC	12 VDC	6.25 A	50 mA	1860 mA	84	HB
CHB75W-48S15	18-75 VDC	15 VDC	5 A	50 mA	1860 mA	84	HB

NOTE : 1. Nominal Input Voltage 48 VDC

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....48V.....18-75V
Undervoltage lockout ..... 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.
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 .....10^9 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

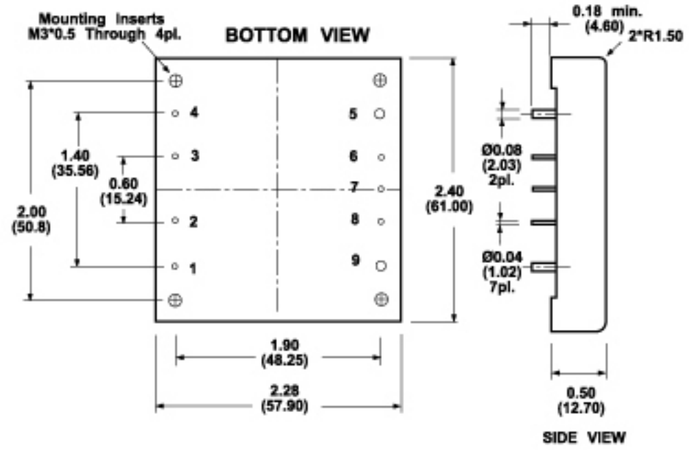
NOTE:

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

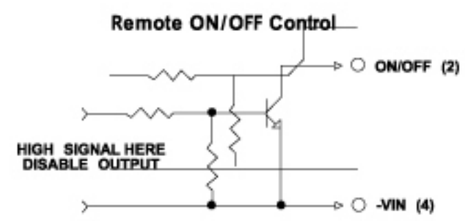
All Dimensions In Inches(mm)

				Pin
Tolerances	Inches	.XX±.02	.XXX±.010	±0.02
	Millimeters	.X±.5	.XX±.25	±0.5

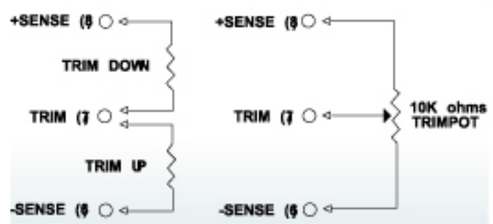


PIN CONNECTION

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



External Output Trim



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