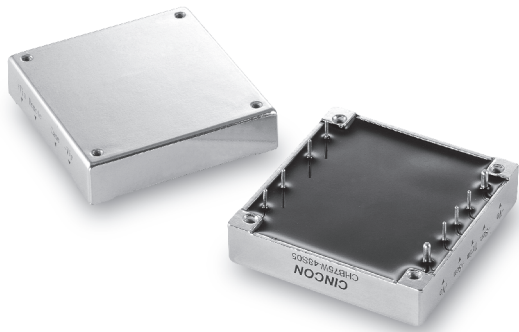


CHB75W

S E R I E S

37.5-75 WATT 4:1 INPUT RANGE DC-DC CONVERTERS



Features

- 37.5-75W Isolated Output
- Half Brick Package
- 4 : 1 Input Range
- Regulated Outputs
- Efficiency to 85%
- 300KHz Switching Frequency
- Five-Sided Shield Metal Case
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	SIZE
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB75W-24S33	9-36 VDC	3.3 VDC	0mA	15 A	50 mA	2611 mA	79	Half-Brick
CHB75W-24S05		5 VDC		15 A		3811 mA	82	
CHB75W-24S12		12 VDC		6.25A		3765 mA	83	
CHB75W-24S15		15 VDC		5 A		3720 mA	84	
CHB75W-24S24		24 VDC		3.12 A		3720 mA	84	
CHB75W-48S33	18-75 VDC	3.3 VDC	0mA	15 A	50 mA	1289 mA	80	Half-Brick
CHB75W-48S05		5 VDC		15 A		1883 mA	83	
CHB75W-48S12		12 VDC		6.25 A		1860 mA	84	
CHB75W-48S15		15 VDC		5 A		1838 mA	85	
CHB75W-48S24		24 VDC		3.12 A		1835 mA	85	

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

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 Regulation¹±0.2% max.
Load Regulation²±0.2% max.
Over Voltage Protection trip Range, % Vo nom.....115-140%
Current Limit 110% ~160% Nominal Output

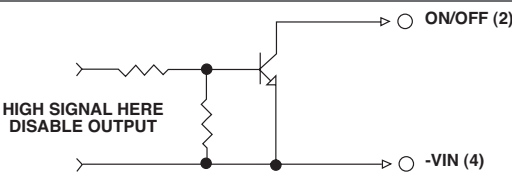
GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation Voltage Input/Output.....1500VDC min.
Input/Case.....1500VDC min.
Output/Case.....1500VDC min.

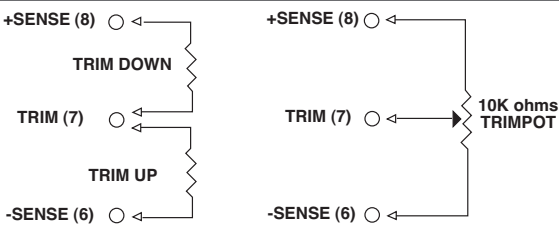
Isolation Resistance 10⁷ ohm min.
Switching Frequency 300KHz, Typ.
Operating Case Temperature-40°C to 100°C
Storage Temperature-55°C to +105°C
Thermal Shutdown, Case Temp. 100°C Typ.
Dimensions 2.28x2.40x0.50 inches
(57.9x61.0x12.7 mm)

Case Material.....Aluminum
Weight.....94g

Remote On/Off Control



External Output Trim



PIN CONNECTION

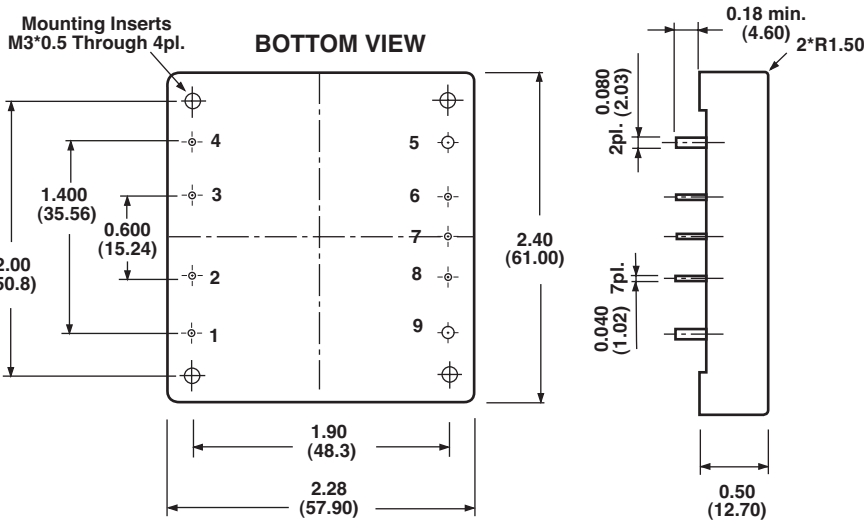
Pin	Function
1	+Vin
2	ON/OFF
3	CASE
4	-Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

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.
Module ON< 0.8Vdc
Module OFF Open Circuit

CASE HB

All Dimensions In Inches(mm)
Tolerance Inches: x.xx= ±0.02, x.xxx= ±0.010
Millimeters: x.x= ±0.5, x.xx= ±0.25



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cincon:

<u>CHB75W-48S33</u>	<u>CHB75W-48S05</u>	<u>CHB75W-48S15</u>	<u>CHB75W-48S12</u>	<u>CHB75W-48S24</u>	<u>CHB75W-24S12N</u>
<u>CHB75W-48S33N</u>	<u>CHB75W-48S05N</u>	<u>CHB75W-24S24</u>	<u>CHB75W-48S12N</u>	<u>CHB75W-24S12</u>	<u>CHB75W-24S24N</u>
<u>CHB75W-24S05N</u>	<u>CHB75W-48S24N</u>	<u>CHB75W-24S15N</u>	<u>CHB75W-24S05</u>	<u>CHB75W-24S33</u>	<u>CHB75W-24S15</u>
<u>CHB75W-48S15N</u>	<u>CHB75W-24S33N</u>				