



## FEATURE

- \*150W Isolated Output
- \* Efficiency to 90%
- \* Fixed Switching Frequency
- \* Input Under Voltage Protection
- \* Over Temperature Protection
- \* Over Voltage/Current Protection
- \* Remote On/Off
- \* Industry Standard Half-Brick Package
- \* Fully Isolated 1500VDC
- \* UL60950-1 2<sup>nd</sup> Approval

# CHB150W8 SERIES

## 150 WATT 8:1 INPUT DC-DC CONVERTERS

### SINGLE OUTPUT



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.			CAPACITIVE LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD	(2)	(1)	(3)	
CHB150W8-36S12	9-75 VDC	12 VDC	0 mA	12.5 A	60 mA	4.66 A	89.5	89.5	89.5	5000µF
CHB150W8-36S15	9-75 VDC	15 VDC	0 mA	10 A	60 mA	4.63 A	90	90	90	5000µF
CHB150W8-36S24	9-75 VDC	24 VDC	0 mA	6.25 A	60 mA	4.66 A	89.5	89.5	89	2000µF <sup>(4)</sup>
CHB150W8-36S28	9-75 VDC	28 VDC	0 mA	5.35 A	60 mA	4.63 A	90	90	89.5	1500µF <sup>(4)</sup>
CHB150W8-36S48	9-75 VDC	48 VDC	0 mA	3.13 A	60 mA	4.63 A	90.5	90	89.5	1000µF <sup>(4)</sup>

#### NOTE:

1. Nominal Input Voltage 36 VDC
2. Measured at 24Vin
3. Measured at 48Vin
4. The output terminal of 24, 28, 48Vout models required a minimum capacitor 100uF to maintain specified regulation.

# SPECIFICATIONS

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

## **INPUT SPECIFICATIONS:**

Operating Input Voltage Range .....	36V .....	9-75V
Input Surge Voltage (100ms max.) .....	.....	100Vdc max
Under Voltage Lockout .....	power up .....	9.5V
	power down .....	8.0V
Positive Logic Remote On/Off (see note 4&5)		
Input Filter .....		LC Type

## OUTPUT SPECIFICATIONS:

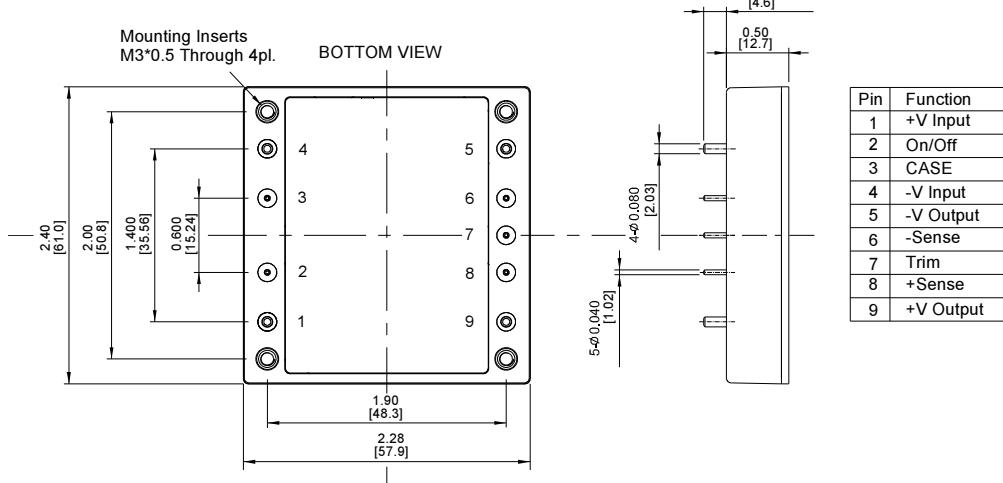
Voltage Accuracy .....	±1.5% max.
Transient Response:25% Step Load Change .....	<500µs
External Trim Adj. Range (note6) .....	±10%
Ripple & Noise, 20MHz BW	
12V&15V .....	60mV RMS, 120mV pk-pk max.
24V&28V .....	100mV RMS, 280mV pk-pk max.
48V .....	200mV RMS, 480mV pk-pk max.
Temperature Coefficient .....	±0.03%/°C
Short Circuit Protection .....	Continuous
Line Regulation(note1) .....	±0.2% max.
Load Regulation(note2) .....	±0.2% max.
Over Voltage Protection Trip Range ,% Vo nom. ....	115-140%
Current Limit .....	105- 200% Nominal Output
Start up Time .....	100ms typ.

## CASE HB

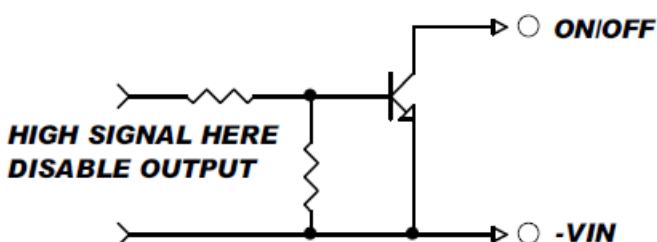
All Dimensions In Inches(mm)

Tolerances      Inches: X.XX= ±0.02 . X.XXX= ±0.010

Millimeters: X X= +0.5 X XX=+0.25



## REMOTE ON/OFF CONTROL



## EXTERNAL OUTPUT TRIM

