



# **CHB150W8 SERIES**

## **150 WATT 8:1 INPUT DC-DC CONVERTERS SINGLE OUTPUT**

### **FEATURE**

- \*150W Isolated Output
- \* Efficiency to 92.5%
- \* 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



<b>MODEL NUMBER</b>	<b>INPUT VOLTAGE</b>	<b>OUTPUT VOLTAGE</b>	<b>OUTPUT CURRENT</b>		<b>INPUT CURRENT</b>		<b>% EFF.</b>			<b>CAPACITIVE LOAD MAX.</b>
			<b>MIN.</b>	<b>MAX.</b>	<b>NO LOAD</b>	<b>FULL LOAD</b>	<b>(2)</b>	<b>(1)</b>	<b>(3)</b>	
CHB150W8-36S05	9-75 VDC	5 VDC	0 mA	30 A <sup>(5)</sup>	150 mA	4.71 A	88	88.5	88.5	10000µF
CHB150W8-36S12	9-75 VDC	12 VDC	0 mA	12.5 A	150 mA	4.53 A	92	92	91	5000µF
CHB150W8-36S15	9-75 VDC	15 VDC	0 mA	10 A	150 mA	4.50 A	92	92.5	92.5	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	4.62 A	90	90	89.5	1500µF <sup>(4)</sup>
CHB150W8-36S48	9-75 VDC	48 VDC	0 mA	3.13 A	60 mA	4.64 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.
5. CHB150W8-36S05 Vin=9-12V, Output Current =0.8\*Io max.

# 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

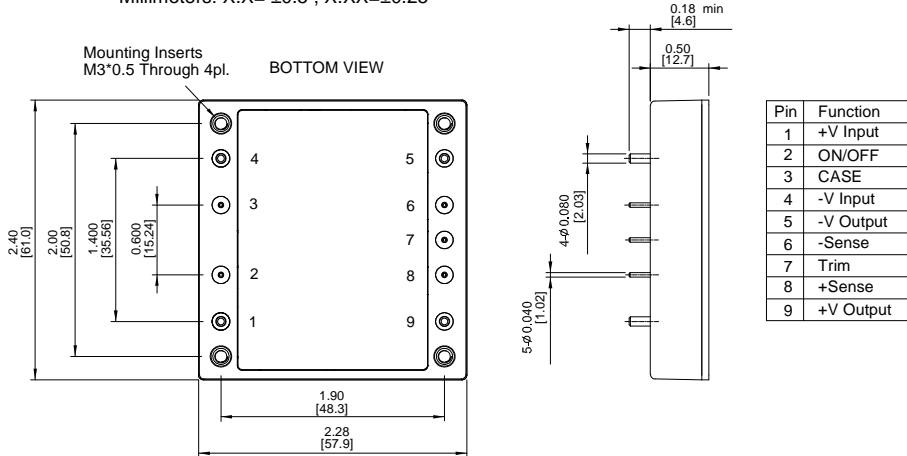
## OUTPUT SPECIFICATIONS:

Voltage Accuracy	.....	±1.5% max.
Transient Response: 25% Step Load Change	.....	<500µs
External Trim Adj. Range (note6)	.....	±10%
Ripple & Noise, 20MHz BW	.....	
5V	.....	40mV RMS, 100mV pk-pk max.
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	.....	110ms typ.

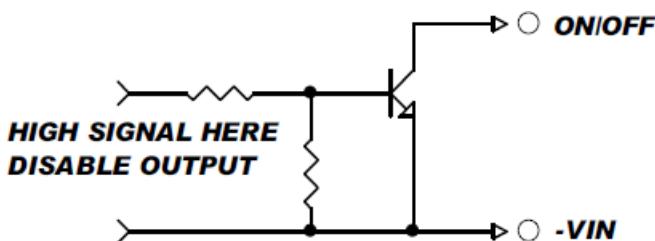
## CASE HB

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

