



## FEATURES

- \*300W Isolated Output
- \* Efficiency to 92%
- \* 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
- \* IEC/EN/UL 62368-1 Approval



# CHB300W SERIES

## 300 WATT 4:1 INPUT DC-DC CONVERTERS

### SINGLE OUTPUT

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.		CAPACITIVE LOAD MAX. <sup>(4)</sup>
			MIN.	MAX.	NO LOAD	FULL LOAD	(2)	(3)	
CHB300W-24S05	9-36 VDC	5 VDC	0 mA	60 A	200 mA	14.12 A	88	88.5	470-10000uF
CHB300W-24S12	9-36 VDC	12 VDC	0 mA	25 A	200 mA	13.74 A	91	91	330-10000uF
CHB300W-24S15	9-36 VDC	15 VDC	0 mA	20 A	250 mA	13.74 A	91	91	0-10000uF
CHB300W-24S24	9-36 VDC	24 VDC	0 mA	12.5 A	80 mA	14.20 A	88	88	220-4700uF
CHB300W-24S28	9-36 VDC	28 VDC	0 mA	10.7 A	80 mA	14.12 A	88.5	88.5	220-4700uF
CHB300W-24S48	9-36 VDC	48 VDC	0 mA	6.25 A	100 mA	14.20 A	88	88	220-2200uF
CHB300W-48S05	18-75 VDC	5 VDC	0 mA	60 A	100 mA	6.94 A	89	90	0-10000uF
CHB300W-48S12	18-75 VDC	12 VDC	0 mA	25 A	120 mA	6.94 A	92	92	0-10000uF
CHB300W-48S15	18-75 VDC	15 VDC	0 mA	20 A	130 mA	6.80 A	92	92	0-10000uF
CHB300W-48S24	18-75 VDC	24 VDC	0 mA	12.5 A	60 mA	6.98 A	90	89	0-4700uF
CHB300W-48S28	18-75 VDC	28 VDC	0 mA	10.7 A	60 mA	6.94 A	91	89.5	0-4700uF
CHB300W-48S48	18-75 VDC	48 VDC	0 mA	6.25 A	80 mA	7.02 A	90	89	220-2200uF

#### NOTE:

1. Nominal Input Voltage 24,48 VDC
2. Measure at 12VDC for 24Sxx and 24VDC for 48Sxx Models
3. Measure at Nominal Input Voltage
4. The Output Terminal of Models Required a Minimum Capacitor to Maintain Specified Regulation
5. Output Peak Power 350W < 3 seconds with Maximum Duty Cycle of 10%, Average Output Power not to Exceed 300W.

# SPECIFICATIONS

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

## INPUT SPECIFICATIONS:

Input Voltage Range	24V	9-36V
	48V	18-75V
Input Surge Voltage (100ms max.)	24V	50Vdc max.
	48V	100Vdc max.
Under Voltage Lockout	24Vin power up	8.8V
	24Vin power down	8.0V
	48Vin power up	17V
	48Vin power down	16V
Positive Logic Remote On/Off (note4&5)		
Input Filter (note7)	24SXX and 48S15	LC Type
	Other 48SXX	Pi Type

## OUTPUT SPECIFICATIONS:

Voltage Accuracy	±1.0% max.
Transient Response: 25% Step Load Change	<500µs
External Trim Adj. Range (note6)	±10%
Ripple & Noise, 20MHz BW (note3)	
5.0V	40mV RMS, 100mV pk-pk max.
12V	60mV RMS, 120mV pk-pk max.
15V	80mV RMS, 200mV pk-pk max.
24V&28V	100mV RMS, 280mV pk-pk max.
48V	200mV RMS, 480mV pk-pk max.
Temperature Coefficient	±0.03%/°C max.
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	120%-160% Nominal Output
Start up Time	120ms typ.

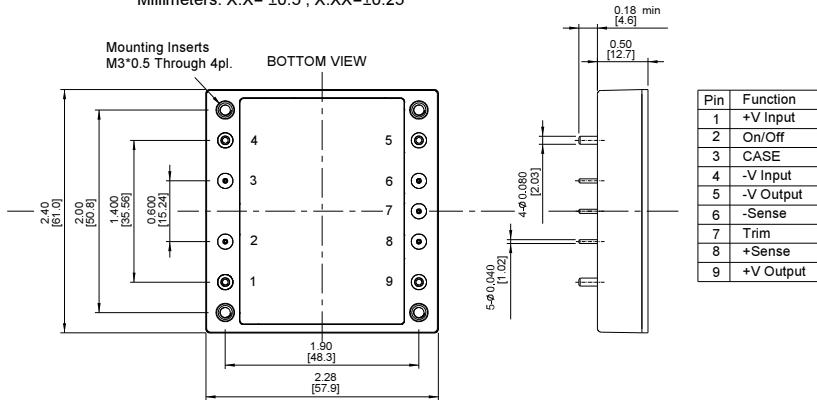
## CASE HB

### CASE HB

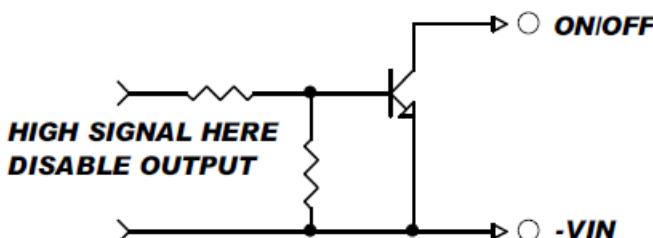
All Dimensions In Inches(mm)

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

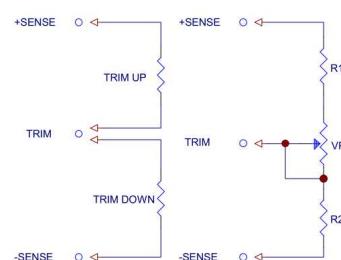
Millimeters: X.X= ±0.5 , X.XX=±0.25



## REMOTE ON/OFF CONTROL



## EXTERNAL OUTPUT TRIM



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