



FEATURES

- * 66 - 100W Isolated Output
 - * Efficiency to 89%
 - * 500KHz Switching Frequency
 - * 2:1 Input Range
 - * Regulated Outputs
 - * Continuous Short Circuit Protection
 - * Five-Sided Metal Case
 - * Half-Brick Size Meet Industrial Standard
 - * UL60950-1 Approval
 - * Without Tantalum Capacitor Inside
- (V2.X Only, with )

CHB100 SERIES

66 - 100 WATT WIDE INPUT

DC-DC CONVERTERS

SINGLE OUTPUT



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CAPACITOR LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB100-24S33	18-36 VDC	3.3 VDC	0 mA	20 A	50 mA	3313 mA	83	20000uF
CHB100-24S05	18-36 VDC	5 VDC	0 mA	20 A	50 mA	4960 mA	84	20000uF
CHB100-24S12	18-36 VDC	12 VDC	0 mA	8.3 A	50 mA	4770 mA	87	8300uF
CHB100-24S15	18-36 VDC	15 VDC	0 mA	6.7 A	50 mA	4758 mA	88	6700uF
CHB100-24S24	18-36 VDC	24 VDC	0 mA	4.17 A	50 mA	4793 mA	87	4170uF
CHB100-48S33	36-75 VDC	3.3 VDC	0 mA	20 A	50 mA	1676 mA	82	20000uF
CHB100-48S05	36-75 VDC	5 VDC	0 mA	20 A	50 mA	2422 mA	86	20000uF
CHB100-48S12	36-75 VDC	12 VDC	0 mA	8.3 A	50 mA	2331 mA	89	8300uF
CHB100-48S15	36-75 VDC	15 VDC	0 mA	6.7 A	50 mA	2352 mA	89	6700uF
CHB100-48S24	36-75 VDC	24 VDC	0 mA	4.17 A	50 mA	2369 mA	88	4170uF

NOTE: 1. Nominal Input Voltage 24 or 48VDC

SPECIFICATIONS

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

INPUT SPECIFICATIONS:

Input Voltage Range.....	24V	18-36V
	48V	36-75V
Input Surge Voltage (100ms max.)	24V	50Vdc max.
	48V	100Vdc max.

Under Voltage Lockout:

24Vin	Power Up	17V, Power Down	16V
48Vin	Power Up	34V, Power Down	32.5V

Positive Logic Remote On/Off (note3&4)

Input Filter Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy	±1.0% max.
Transient Response:25% Step Load Change	<500µs
External Trim Adj. Range	±10%
Ripple & Noise, 20MHz BW (note5)	

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.

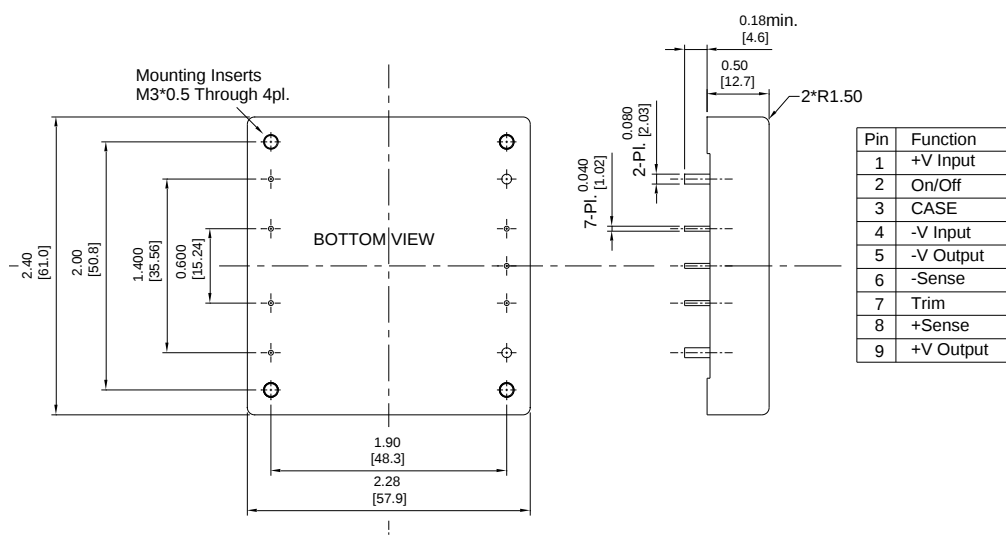
Temperature Coefficient	±0.03%/°C max.
Short Circuit Protection	Continuous
Line Regulation (note1)	±0.2% max.
Load Regulation (note2)	±0.2% max.
Over Voltage Protection Trip Range, % Vo Nom.	115-140%
Current Limit	110%-140% Nominal Output
Start up time	5ms typ.

CASE HB

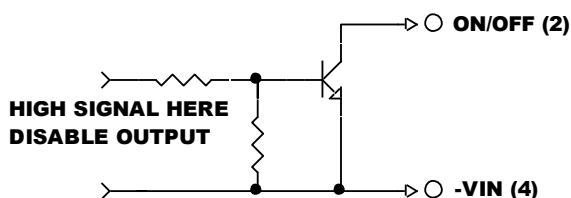
All Dimensions In Inches(mm)

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

