



FEATURES

- * 49.5-75W Isolated Output
- * Efficiency to 85%
- * 300KHz Switching Frequency
- * 4:1 Wide Input Range
- * Regulated Outputs
- * Continuous Short Circuit Protection
- * Five-Sided Metal Case
- * Half-Brick Size Meet Industrial Standard
- * Safety Meets IEC/EN/UL62368-1
- * UL60950-1 Approval (Except 28 Vout)

CHB75W SERIES

49.5 TO 75 WATT 4:1 INPUT RANGE

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		
CHB75W-24S33	9-36 VDC	3.3 VDC	0 mA	15 A	50 mA	2611 mA	79	15000uF
CHB75W-24S05	9-36 VDC	5.0 VDC	0 mA	15 A	50 mA	3811 mA	82	15000uF
CHB75W-24S12	9-36 VDC	12 VDC	0 mA	6.25 A	50 mA	3765 mA	83	6250uF
CHB75W-24S15	9-36 VDC	15 VDC	0 mA	5 A	50 mA	3720 mA	84	5000uF
CHB75W-24S24	9-36 VDC	24 VDC	0 mA	3.12 A	50 mA	3720 mA	84	3120uF
CHB75W-24S28	9-36 VDC	28 VDC	0 mA	2.67 A	50 mA	3720 mA	84	2670uF
CHB75W-24S48	9-36 VDC	48 VDC	0 mA	1.56 A	50 mA	3811 mA	82	1560uF
CHB75W-48S33	18-75 VDC	3.3 VDC	0 mA	15 A	50 mA	1289 mA	80	15000uF
CHB75W-48S05	18-75 VDC	5.0 VDC	0 mA	15 A	50 mA	1883 mA	83	15000uF
CHB75W-48S12	18-75 VDC	12 VDC	0 mA	6.25 A	50 mA	1860 mA	84	6250uF
CHB75W-48S15	18-75 VDC	15 VDC	0 mA	5 A	50 mA	1838 mA	85	5000uF
CHB75W-48S24	18-75 VDC	24 VDC	0 mA	3.12 A	50 mA	1835 mA	85	3120uF
CHB75W-48S28	18-75 VDC	28 VDC	0 mA	2.67 A	50 mA	1835 mA	85	2670uF
CHB75W-48S48	18-75 VDC	48 VDC	0 mA	1.56 A	50 mA	1860 mA	84	1560uF

NOTE: 1. Nominal Input Voltage 24, 48VDC

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 (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.

28V 100mV RMS max., 280mV pk-pk max.

48V 200mV RMS max., 480mV pk-pk max.

Temperature Coefficient ±0.03%/°C max.

Short Circuit Protection Continuous

Line Regulation (note1&7) ±0.2% max.

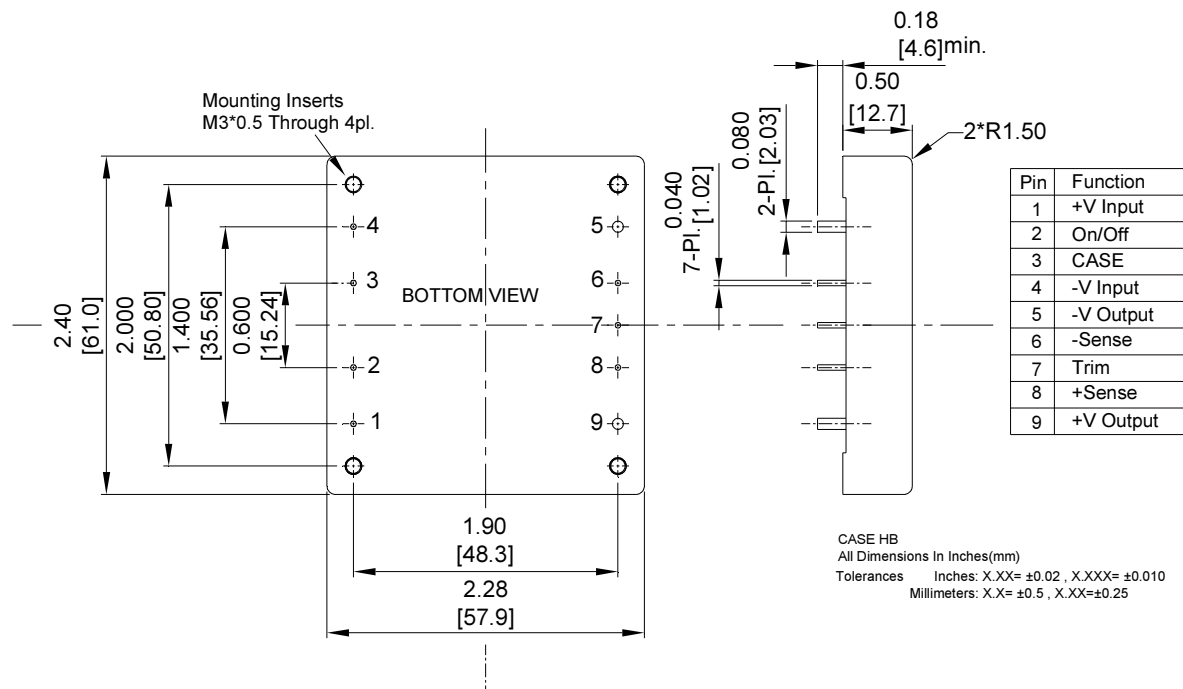
Load Regulation (note2&7) ±0.2% max.

Over Voltage Protection Trip Range, % Vo nom. 115-140%

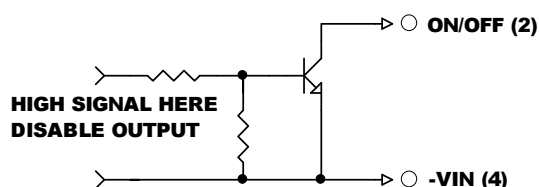
Current Limit 110%-160% Nominal Output

Start up Time 5ms typ.

CASE HB



REMOTE ON/OFF CONTROL



EXTERNAL OUTPUT TRIM

