



## FEATURES

- \* 49.5W-75W Isolated Output
- \* Efficiency to 89%
- \* 300/400KHz Switching Frequency
- \* 2:1 Input Range
- \* Regulated Outputs
- \* Continuous Short Circuit Protection
- \* Five-Sided Metal Case
- \* Half-Brick Size Meet Industrial Standard
- \* Safety Meets IEC/EN/UL60950-1
- \* UL60950-1 Approval

# CHB75 SERIES

## 49.5 - 75 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		
CHB75-12S33	9 -18 VDC	3.3 VDC	0 mA	15 A	50 mA	5290 mA	78	10000uF
CHB75-12S05	9 -18 VDC	5 VDC	0 mA	15 A	50 mA	7530 mA	83	10000uF
CHB75-12S12	9 -18 VDC	12 VDC	0 mA	6.25 A	50 mA	7183 mA	87	10000uF
CHB75-12S15	9 -18 VDC	15 VDC	0 mA	5 A	50 mA	7267 mA	86	4000uF
CHB75-12S24	9 -18 VDC	24 VDC	0 mA	3.13 A	50 mA	7183 mA	87	2000uF
CHB75-24S33	18-36 VDC	3.3 VDC	0 mA	15 A	50 mA	2578 mA	80	10000uF
CHB75-24S05	18-36 VDC	5 VDC	0 mA	15 A	50 mA	3720 mA	84	10000uF
CHB75-24S12	18-36 VDC	12 VDC	0 mA	6.25 A	50 mA	3551 mA	88	10000uF
CHB75-24S15	18-36 VDC	15 VDC	0 mA	5 A	50 mA	3551 mA	88	4000uF
CHB75-24S24	18-36 VDC	24 VDC	0 mA	3.13 A	50 mA	3551 mA	88	2000uF
CHB75-48S33	36-75 VDC	3.3 VDC	0 mA	15 A	50 mA	1273 mA	81	10000uF
CHB75-48S05	36-75 VDC	5 VDC	0 mA	15 A	50 mA	1860 mA	84	10000uF
CHB75-48S12	36-75 VDC	12 VDC	0 mA	6.25 A	50 mA	1755 mA	89	10000uF
CHB75-48S15	36-75 VDC	15 VDC	0 mA	5 A	50 mA	1775 mA	88	4000uF
CHB75-48S24	36-75 VDC	24 VDC	0 mA	3.13 A	50 mA	1755 mA	89	2000uF

NOTE: 1. Nominal Input Voltage 12, 24 or 48VDC

# SPECIFICATIONS

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

## INPUT SPECIFICATIONS:

Input Voltage Range .....	12V .....	9-18V
	24V .....	18-36V
	48V .....	36-75V
Input Surge Voltage (100ms max.) .....	12V .....	25Vdc max.
	24V .....	50Vdc max.
	48V .....	100Vdc max.

### Under Voltage Lockout:

12Vin .....	power up .....	8.8V, power down .....	8V
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 .....	20mV RMS max.
	75mV pk-pk max.
12V & 15V .....	30mV RMS max.
	100mV 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% ~150% Nominal Output

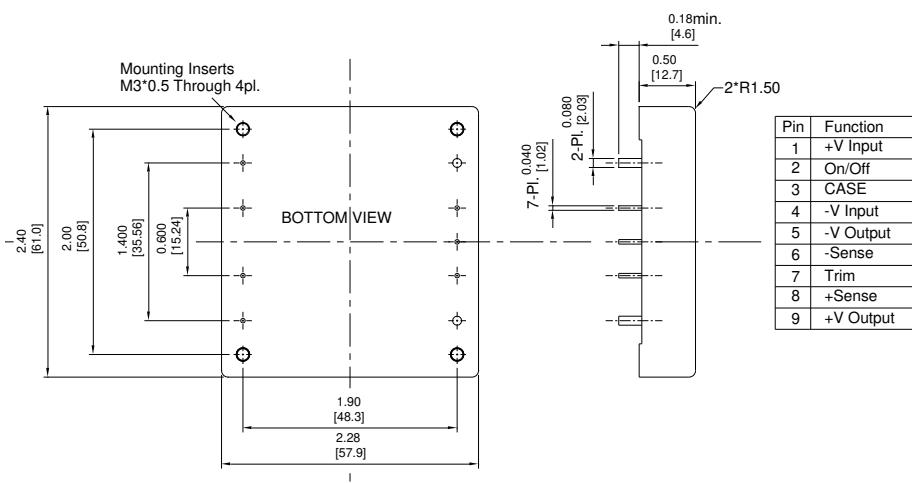
Start up Time ..... 5ms typ.

### CASE HB

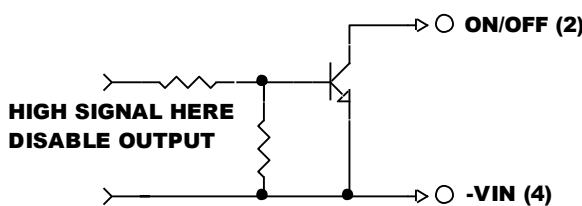
All Dimensions In Inches(mm)

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

