



FEATURES

- * 99-150W Isolated Output
- * Efficiency to 91%
- * 250KHz Switching Frequency
- * 4 : 1 Input Range
- * Regulated Outputs
- * Remote ON/OFF
- * Over Temperature Protection
- * Over Voltage/Current Protection
- * Continuous Short Circuit Protection
- * Half-Brick size meet industrial standard
- * CE Mark Meets 2004/108/EC
- * UL60950-1 Approval

CHB150W SERIES 99 TO 150 WATT 4:1 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		
CHB150W-24S3V3	9-36 VDC	3.3VDC	0mA	30 A	200mA	4741mA	87	30000uF
CHB150W-24S05	9-36 VDC	5.0VDC	0mA	30 A	200mA	7184mA	87	30000uF
CHB150W-24S12	9-36 VDC	12 VDC	0mA	12.5 A	100mA	7102mA	88	12500uF
CHB150W-24S15	9-36 VDC	15 VDC	0mA	10 A	100mA	7184mA	87	10000uF
CHB150W-24S24	9-36 VDC	24 VDC	0mA	6.5 A	100mA	7386mA	88	1800uF
CHB150W-48S3V3	18-75VDC	3.3VDC	0mA	30 A	100mA	2344mA	88	30000uF
CHB150W-48S05	18-75VDC	5.0VDC	0mA	30 A	100mA	3472mA	90	30000uF
CHB150W-48S12	18-75VDC	12 VDC	0mA	12.5 A	50mA	3434mA	91	12500uF
CHB150W-48S15	18-75VDC	15 VDC	0mA	10 A	50mA	3472mA	90	10000uF
CHB150W-48S24	18-75VDC	24 VDC	0mA	6.5 A	50mA	3611mA	90	2200uF

NOTE: 1. Nominal Input Voltage 24, 48VDC

SPECIFICATIONS

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

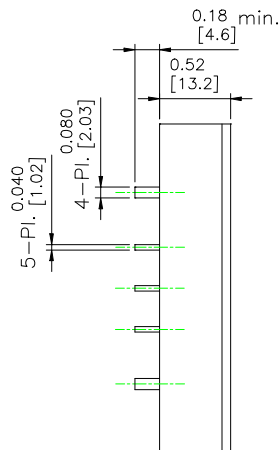
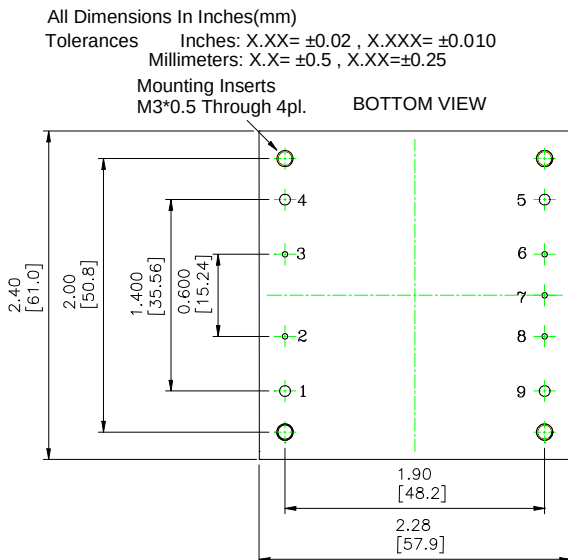
INPUT SPECIFICATIONS:

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 (note 4 & 5)		
Input Filter	PI Type	

OUTPUT SPECIFICATIONS:

Voltage Accuracy	±1.5% max.
Transient Response:25% Step Load Change	<500u sec.
External Trim Adj. Range	±10%
Ripple & Noise, 20MHZ BW(note 3)	
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
Short Circuit Protection	Continuous
Line Regulation (note 1)	±0.2% max.
Load Regulation (note 2)	±0.2% max.
Over Voltage Protection trip Range, % Vo nom.	115-140%
Current Limit	110% ~140% Nominal Output
Start up time	25ms Typ.

CASE HB



Pin	Function
1	+Vin
2	ON/OFF
3	CASE
4	-Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

GENERAL SPECIFICATIONS:

Efficiency	See Table	
Isolation Voltage	Input/Output	1500VDC min.
	Input/Case	1500VDC min.
	Output/Case	1500VDC min.
Isolation Resistance	10 ⁷ ohm min.	
Isolation Capacitance	1000pF Typ.	
Switching Frequency	250KHz, Typ.	
Operating Case Temperature	-40°C to 100°C	
Storage Temperature	-55°C to +105°C	
Thermal Shutdown, Case Temp.	110°C Typ.	

Humidity	95% RH max. Non condensing	
MTBF	MIL-HDBK-217F, GB, 25°C, Full Load	400KHrs Typ.
Dimensions	2.28×2.40×0.52 inches (57.9×61.0×13.2 mm)	
Case Material	Aluminum Baseplate with Plastic Case	
Weight	112g	

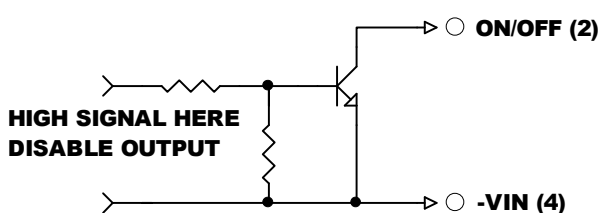
NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to Zero Load
3. Output Ripple and Noise measured with 10uF tantalum and 1uF ceramic capacitor across output
4. Logic Compatibility Open Collector ref to -Input

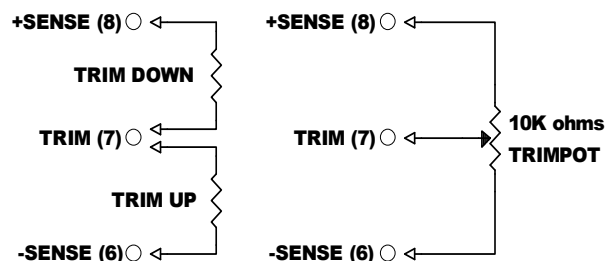
Module ON	> 3.5Vdc or Open Circuit
Module OFF	< 1.8Vdc
5. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF

Module ON	< 1.8Vdc
Module OFF	>3.5Vdc or Open Circuit
6. Suffix "-C" to the Model Number with Clear Mounting Insert (3.2mm DIA.)

REMOTE ON/OFF CONTROL



EXTERNAL OUTPUT TRIM



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