



Railway
System

FEATURES

- * 150W Isolated Output
- * Efficiency to 92.5%
- * 200KHz Switching Frequency
- * 3:1 Input Range
- * Regulated Outputs
- * Remote On/Off
- * Over Temperature Protection
- * Over Voltage/Current Protection
- * Continuous Short Circuit Protection
- * Half-Brick Size Meet Industrial Standard
- * UL60950-1 Approval
- * Meet EN50155 with External Circuit

CHB150-110S SERIES

150 WATT

DC-DC CONVERTERS



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CAPACITOR LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB150-110S05	66-160 VDC	5.0 VDC	0 mA	30 A	40 mA	1474 mA	92.5	10000µF
CHB150-110S12	66-160 VDC	12 VDC	0 mA	12.5 A	40 mA	1474 mA	92.5	5600µF
CHB150-110S24	66-160 VDC	24 VDC	0 mA	6.5 A	60 mA	1541 mA	92	2200µF

NOTE: 1. Nominal Input Voltage 110VDC

SPECIFICATIONS

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

INPUT SPECIFICATIONS:

Input Voltage Range	110V	66-160V
Input Surge Voltage (100ms max.)	180Vdc max.	
Under Voltage Lockout	power up	62V

power down 56V

Positive Logic Remote On/Off:

Logic Compatibility	Open Collector ref to -Input
Module On	> 3.5Vdc to 75Vdc or Open Circuit
Module Off	0 to < 1.8Vdc

Input Filter (note 6) Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy ±1.0% max.

Transient Response: 25% Step Load Change

Error Band	±5% Vout
Recover Time	<200µs

External Trim Adj. Range ±10%

Ripple & Noise, 20MHz BW (note3)

5V	40mV RMS, 100mV pk-pk max.
12V	60mV RMS, 150mV pk-pk max.
24V	100mV RMS, 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%

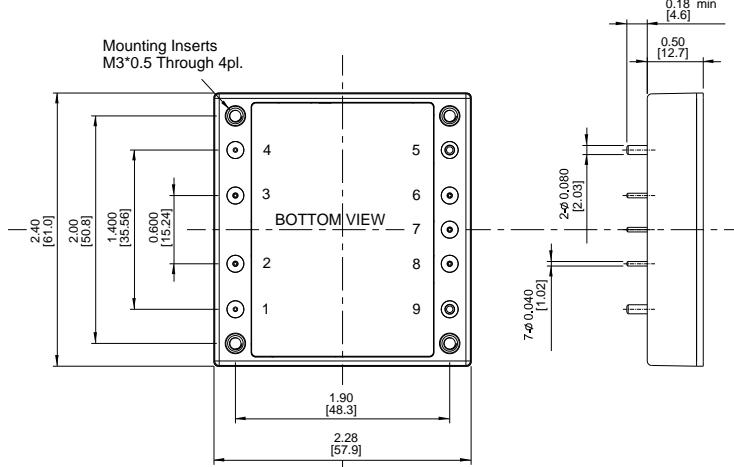
Current Limit 110%-180% Nominal Output

Start up time 45ms typ.

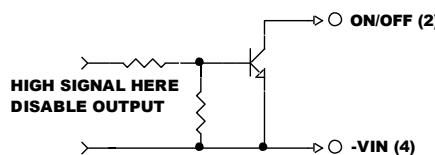
All Dimensions In Inches(mm)

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

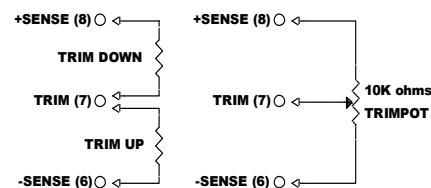
Millimeters: X.X= ±0.5 , X.XX=±0.25



Remote On/Off Control



External Output Trim



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