



FEATURES

- * 231-350W Isolated Output
- * Efficiency to 92.5%
- * Fixed Switching Frequency
- * Input Under Voltage Protection
- * Over Temperature Protection
- * Over Voltage/Current Protection
- * Remote On/Off
- * Industry Standard Half-Brick Package
- * Fully Isolated 1500VDC
- * UL60950-1 Approval
- * High Power Density 123W/in³
- * Safety Meets IEC/EN/UL 62368-1

CHB350 SERIES

231 - 350 WATT 2:1 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		
CHB350-24S3V3□-X	18-36 VDC	3.3 VDC	0 mA	70 A	140 mA	10.94 A	88	10000µF
CHB350-24S05□-X	18-36 VDC	5 VDC	0 mA	70 A	260 mA	16.39 A	89	10000µF
CHB350-24S12□-X	18-36 VDC	12 VDC	0 mA	29.2 A	250 mA	16.13 A	90.5	10000µF
CHB350-24S24□-X	18-36 VDC	24 VDC	0 mA	14.6 A	60 mA	16.40 A	89	10000µF
CHB350-24S28□-X	18-36 VDC	28 VDC	0 mA	12.5 A	60 mA	16.11 A	90.5	100-7000µF ⁽³⁾
CHB350-24S48□-X	18-36 VDC	48 VDC	0 mA	7.3 A	60 mA	16.22 A	90	100-2200µF ⁽³⁾
CHB350-48S3V3□-X	36-75 VDC	3.3 VDC	0 mA	70 A	90 mA	5.41 A	89	10000µF
CHB350-48S05□-X	36-75 VDC	5 VDC	0 mA	70 A	130 mA	8.01 A	91	10000µF
CHB350-48S12□-X	36-75 VDC	12 VDC	0 mA	29.2 A	100 mA	7.89 A	92.5	10000µF
CHB350-48S24□-X	36-75 VDC	24 VDC	0 mA	14.6 A	60 mA	7.98 A	91.5	10000µF
CHB350-48S28□-X	36-75 VDC	28 VDC	0 mA	12.5 A	60 mA	7.93 A	92	100-7000µF ⁽³⁾
CHB350-48S48□-X	36-75 VDC	48 VDC	0 mA	7.3 A	60 mA	7.93 A	92	100-2200µF ⁽³⁾

NOTE:

1. □= N or None, X can be L, I, C, IC
2. Nominal Input Voltage 24, 48VDC
3. The output terminal of 28Vout and 48Vout models required a minimum capacitor 100uF to maintain specified regulation.

SPECIFICATIONS

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

INPUT SPECIFICATIONS:

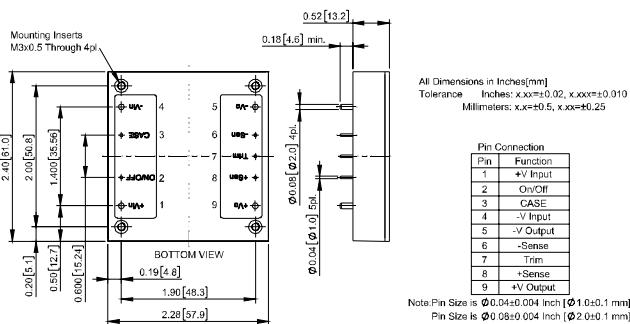
Input Voltage Range	24V	18-36V
	48V	36-75V
Input Surge Voltage (100ms max.)	24V	50Vdc max.
	48V	100Vdc max.
Under Voltage Lockout	24Vin power up	17V
	24Vin power down	16V
	48Vin power up	35V
	48Vin power down	33V
Positive Logic Remote On/Off (note4)		
Logic Compatibility	Open Collector ref to -Input	
Module on	>3.5Vdc to 75Vdc or open circuit	
Module off	0 to < 1.2Vdc	
Input Filter	Pi Type	

OUTPUT SPECIFICATIONS:

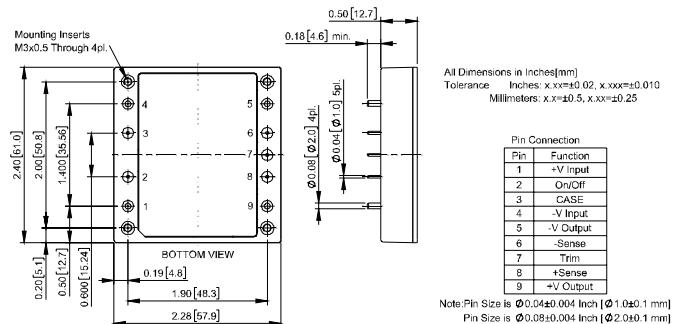
Voltage Accuracy	±1.0% max.
Transient Response: 25% Step Load Change	<500µs
External Trim Adj. Range (note7)	±10%
Ripple & Noise, 20MHz BW	
3.3V & 5V	40mV RMS max., 100mV pk-pk max.
12V	60mV RMS max., 120mV pk-pk max.
24V & 28V	100mV RMS max., 280mV pk-pk max.
48V.....	150mV RMS max., 480mV pk-pk max.
Temperature Coefficient	±0.03%/°C
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	105%-140% Nominal Output
Start up time	175ms typ.

CASE HB

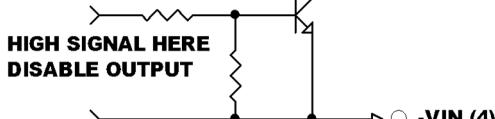
Standard Package



Suffix “-L” Package



REMOTE ON/OFF CONTROL



EXTERNAL OUTPUT TRIM

