



FEATURES

- * 66 - 100W Isolated Output
- * Efficiency to 89%
- * 500KHz Switching Frequency
- * 2 : 1 Input Range
- * Regulated Outputs
- * Continuous Short Circuit Protection
- * Five-Sided Metal Case
- * Half-Brick Size Meet Industrial Standard
- * CE Mark Meets 2004/108/EC
- * UL60950-1 Approval
- * Without Tantalum Capacitor Inside
(V2.X Only, with ~~TO~~ Label)



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CAPACITOR LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB100-24S33	18-36 VDC	3.3 VDC	0 mA	20 A	50 mA	3313 mA	83	20000uF
CHB100-24S05	18-36 VDC	5 VDC	0 mA	20 A	50 mA	4960 mA	84	20000uF
CHB100-24S12	18-36 VDC	12 VDC	0 mA	8.3 A	50 mA	4770 mA	87	8300uF
CHB100-24S15	18-36 VDC	15 VDC	0 mA	6.7 A	50 mA	4758 mA	88	6700uF
CHB100-24S24	18-36 VDC	24 VDC	0 mA	4.17 A	50 mA	4793 mA	87	4170uF
CHB100-48S33	36-75 VDC	3.3 VDC	0 mA	20 A	50 mA	1676 mA	82	20000uF
CHB100-48S05	36-75 VDC	5 VDC	0 mA	20 A	50 mA	2422 mA	86	20000uF
CHB100-48S12	36-75 VDC	12 VDC	0 mA	8.3 A	50 mA	2331 mA	89	8300uF
CHB100-48S15	36-75 VDC	15 VDC	0 mA	6.7 A	50 mA	2352 mA	89	6700uF
CHB100-48S24	36-75 VDC	24 VDC	0 mA	4.17 A	50 mA	2369 mA	88	4170uF

NOTE: 1. Nominal Input Voltage 24 or 48VDC

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, 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 $\pm 1.0\%$ max.

Transient Response: 25% Step Load Change <500 μ s.

External Trim Adj. Range $\pm 10\%$

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.

Temperature Coefficient

Short Circuit Protection

Line Regulation (note1)

Load Regulation (note2)

Over Voltage Protection Trip Range, % Vo nom.

Current Limit

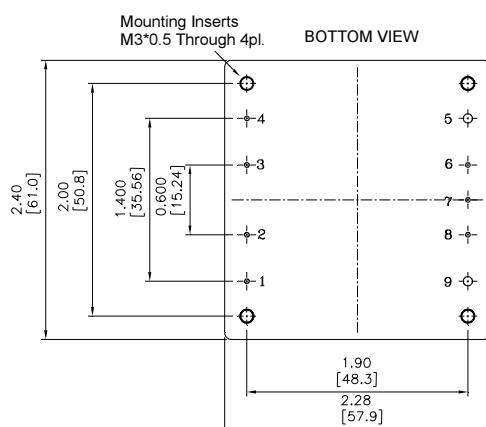
Start up time

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



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 500KHz typ.

Operating Case Temperature -40°C to +100°C

Storage Temperature -40°C to +105°C

Thermal Shutdown Case Temp. 100°C typ.

Humidity 95% RH max. Non condensing

MTBF MIL-STD-217F, GB, 25°C, Full Load 900Khrs typ.

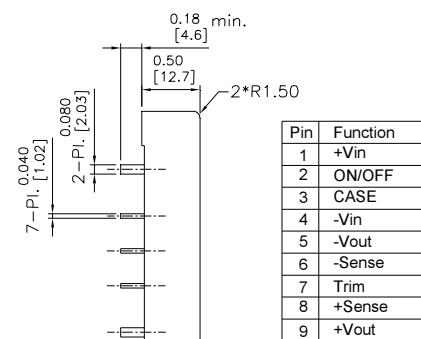
Dimensions 2.28x2.40x0.50 inches (57.9x61.0x12.7 mm)

Case Material Aluminum

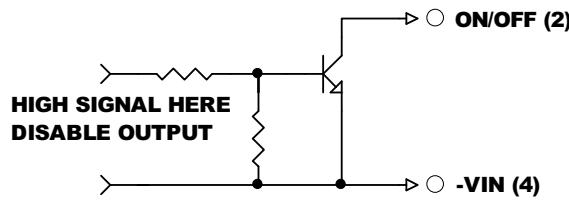
Weight 95g

NOTE:

1. Measured from high line to low line.
2. Measured from full load to zero load.
3. Logic compatibility open collector ref to -Input
 - Module on open circuit
 - Module off < 0.8VDC
4. Suffix "N" to the model number with negative logic remote on/off.
5. Output ripple and noise measured with 10uF tantalum and 1uF ceramic capacitor across output.
6. Suffix "-C" to the model number with clear mounting insert. (3.2mm DIA.)



REMOTE ON/OFF CONTROL



EXTERNAL OUTPUT TRIM

