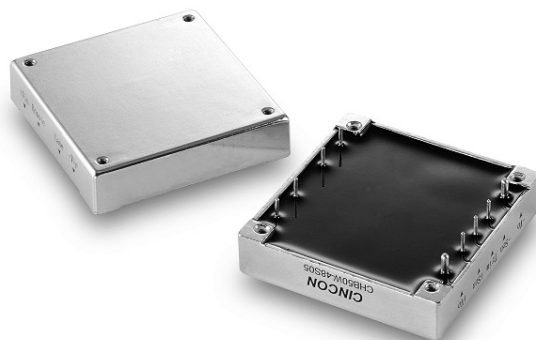




FEATURES

- * 33-50W Isolated Output
- * Efficiency to 87%
- * 300KHz Switching Frequency
- * 4:1 Input Range
- * Regulated Outputs
- * Continuous Short Circuit Protection
- * Five-Sided Shield Metal Case
- * Half-Brick Size Meet Industrial Standard
- * UL60950-1 Approval (Except 28 Vout)
- * Safety Meets IEC/EN/UL62368-1



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CAPACITOR LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB50W-24S33	9-36 VDC	3.3 VDC	0 mA	10 A	50 mA	1740 mA	79	10000uF
CHB50W-24S05	9-36 VDC	5 VDC	0 mA	10 A	50 mA	2570 mA	81	10000uF
CHB50W-24S12	9-36 VDC	12 VDC	0 mA	4.16 A	50 mA	2510 mA	83	4160uF
CHB50W-24S15	9-36 VDC	15 VDC	0 mA	3.33 A	50 mA	2448 mA	85	3330uF
CHB50W-24S24	9-36 VDC	24 VDC	0 mA	2.08 A	50 mA	2476 mA	84	2080uF
CHB50W-24S28	9-36 VDC	28 VDC	0 mA	1.78 A	50 mA	2510 mA	83	1780uF
CHB50W-24S48	9-36 VDC	48 VDC	0 mA	1.04 A	50 mA	2506 mA	83	1040uF
CHB50W-48S33	18-75 VDC	3.3 VDC	0 mA	10 A	50 mA	848 mA	81	10000uF
CHB50W-48S05	18-75 VDC	5 VDC	0 mA	10 A	50 mA	1255 mA	83	10000uF
CHB50W-48S12	18-75 VDC	12 VDC	0 mA	4.16 A	50 mA	1223 mA	85	4160uF
CHB50W-48S15	18-75 VDC	15 VDC	0 mA	3.33 A	50 mA	1196 mA	87	3330uF
CHB50W-48S24	18-75 VDC	24 VDC	0 mA	2.08 A	50 mA	1209 mA	86	2080uF
CHB50W-48S28	18-75 VDC	28 VDC	0 mA	1.78 A	50 mA	1223 mA	85	1780uF
CHB50W-48S48	18-75 VDC	48 VDC	0 mA	1.04 A	50 mA	1238 mA	84	1040uF

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, power down	8V
48Vin	power up	17V, power down	16V

Positive Logic Remote On/Off (note3&4)

Input Filter Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy (note7)	±1.0% max.
Transient Response: 25% Step Load Change	<500µs
External Trim Adj. Range	±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.
28V	100mV RMS max., 280mV pk-pk max.
48V	200mV RMS max., 480mV pk-pk max.

Temperature Coefficient ±0.03%/°C max.

Short Circuit Protection Continuous

Line Regulation (note1&7) ±0.2% max.

Load Regulation (note2&7) ±0.2% max.

Over Voltage Protection Trip Range, % Vo nom. 115-140%

Current Limit 110% -160% Nominal Output

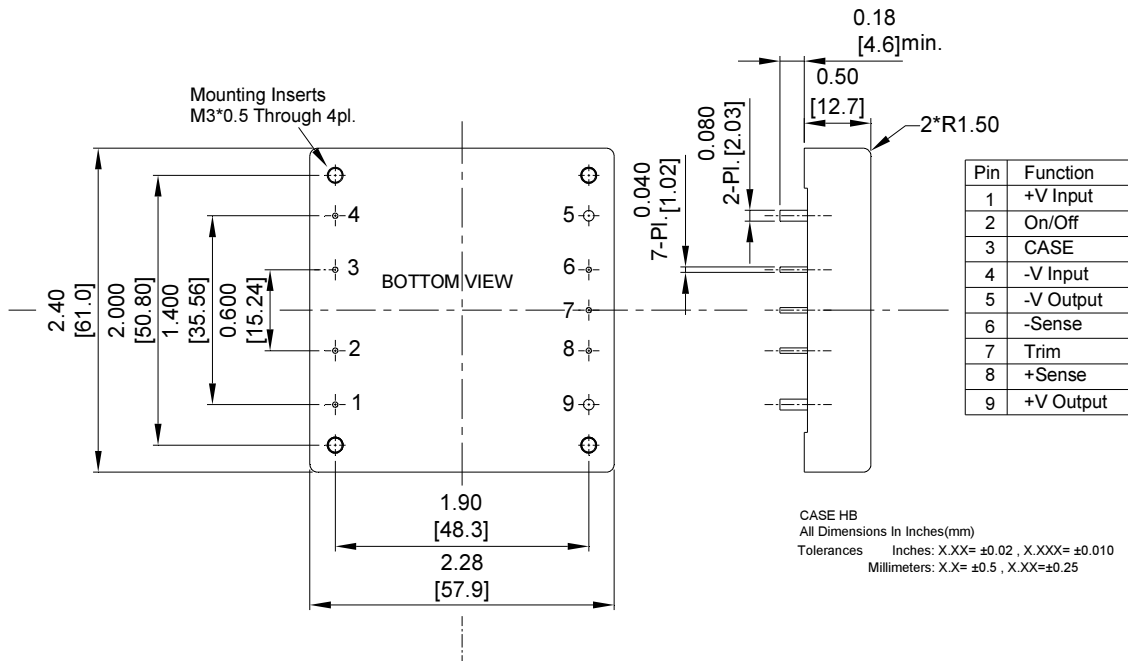
Start up Time 5ms typ.

GENERAL SPECIFICATIONS:

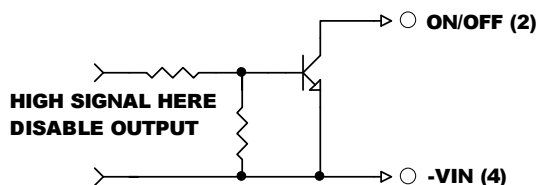
Efficiency	See Table
Isolation Voltage ... Input/Output, Input/Case, Output/Case ...	1500VDC min.
Isolation Resistance	10 ⁷ ohm min.
Isolation Capacitance	1000pF typ.
Switching Frequency	300KHz typ.
Operating Case Temperature	-40°C to 100°C
Storage Temperature	-55°C to +105°C
Thermal Shutdown Case Temp.	100°C typ.
Humidity	95% RH max. Non Condensing
MTBF	MIL-HDBK-217F, GB, 25°C, Full Load 1000Khrs typ.
Dimensions	2.28x2.40x0.50 inches (57.9x61.0x12.7 mm)
Case Material	Aluminum
Weight	94g

NOTE:

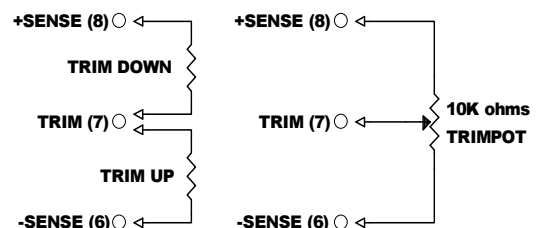
1. Measured from high line to low line.
2. Measured from full load to zero load.
3. Logic compatibility open collector ref to -input
Module on >3.5VDC to 75VDC or open circuit
Module off 0 to <0.8VDC
4. Suffix "N" to the model number with negative logic remote on/off.
Module on 0 to <0.8VDC
Module off >3.5VDC to 75VDC or open circuit
5. Output ripple and noise measured with 10µF tantalum and 1µF ceramic capacitor across output. (48V: 1µF ceramic cap. only)
6. Suffix "-C" to the model number with clear mounting insert (3.2mm DIA.)
7. Require a 47µF aluminum capacitor connected between +Vout and -Vout for 48Vout models.



REMOTE ON/OFF CONTROL



EXTERNAL OUTPUT TRIM



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Isolated DC/DC Converters](#) category:

Click to view products by [Cincon](#) manufacturer:

Other Similar products are found below :

[PSL486-7LR](#) [Q48T30020-NBB0](#) [18362](#) [JAHW100Y1](#) [SQ24S15033-PS0S](#) [CE-1004](#) [MAU228](#) [J80-0041NL](#) [DFC15U48D15](#) [XGS-1205](#)
[06322](#) [SPB05B-15](#) [SQ48T10050-PDA0](#) [L-DA20](#) [DCG40-5G](#) [XKS-2405](#) [DPA423R](#) [vi-m13-cw-03](#) [VI-L53-CV](#) [24IBX15-50-0ZG](#)
[HZZ01204-G](#) [SPU02N-09](#) [QUINT4-BUFFER/24DC/40](#) [QUINT4-CAP/24DC/5/4KJ](#) [73-551-5039I](#) [DFC15U48D15G](#) [SEN-6471-1EM](#)
[AHV2815DF/HBB](#) [PAH-48/8.5-D48NB1-C](#) [BM3020-7A](#) [QRS2050P025K00](#) [CM2320-9EG](#) [SKMW15F-05](#) [TEQ 100-2418WIR](#) [TEQ 160-](#)
[7218WIR](#) [HQA2W085W033V-N07-S](#) [LT8301ES5#WTRPBF](#) [UC2842N](#) [SY8368AQQC](#) [AOZ2261AQI-18](#) [B0509XT-1WR3](#) [B0503XT-](#)
[1WR3](#) [VRB2405S-10WR3](#) [B0515XT-1WR3](#) [EA8103DHR](#) [VRB2424S-10WR3](#) [AOZ2255LQI-30](#) [B0512XT-1WR3](#) [B0524XT-1WR3](#)
[AM40UW-2412SZ](#)