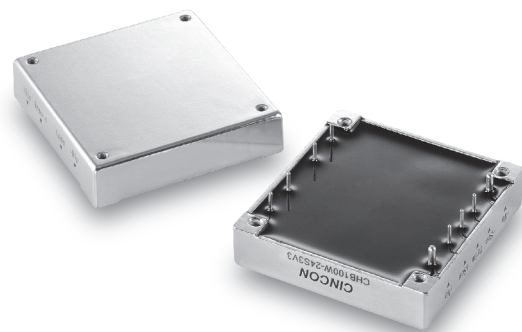


CHB100W

S E R I E S

66 TO 100 WATT
4:1 INPUT RANGE
DC-DC CONVERTERS

NEW



Features

- 66-100W Isolated Output
- 4 : 1 Wide Input Range
- Half-Brick Package
- Efficiency to 88%
- Regulated Outputs
- Five-Sided Shield Metal Case
- Continuous Short Circuit Protection

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	SIZE
			MIN.	MAX.	NO LOAD	FULL LOAD		
CHB100W-24S3V3	9-36 VDC	3.3VDC	0mA	20 A	35mA	3374mA	81.5	Half-Brick
CHB100W-24S05	9-36 VDC	5.0VDC	0mA	20 A	35mA	4990mA	83.5	Half-Brick
CHB100W-24S12	9-36 VDC	12 VDC	0mA	8.3 A	35mA	4902mA	85	Half-Brick
CHB100W-24S15	9-36 VDC	15 VDC	0mA	6.7 A	35mA	4817mA	86.5	Half-Brick
CHB100W-24S24	9-36 VDC	24 VDC	0mA	4.17 A	35mA	4849mA	86	Half-Brick
CHB100W-48S3V3	18-75VDC	3.3VDC	0mA	20 A	30mA	1708mA	80.5	Half-Brick
CHB100W-48S05	18-75VDC	5.0VDC	0mA	20 A	30mA	2422mA	86	Half-Brick
CHB100W-48S12	18-75VDC	12 VDC	0mA	8.3 A	30mA	2408mA	86.5	Half-Brick
CHB100W-48S15	18-75VDC	15 VDC	0mA	6.7 A	30mA	2381mA	87.5	Half-Brick
CHB100W-48S24	18-75VDC	24 VDC	0mA	4.17 A	30mA	2367mA	88	Half-Brick

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....24V.....9-36V
48V.....18-75V
Undervoltage lockout24Vin power up.....8.8V
24Vin power down8.0V
48Vin power up.....17V
48Vin power down16V
Positive Logic Remote ON/OFF^{4,5}
Input Filter PI Type

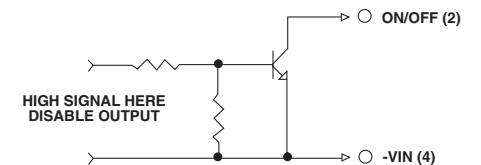
OUTPUT SPECIFICATIONS:

Voltage Accuracy : ±1.5% max.
Transient Response :25% Step Load Change.....<500μ sec.
External Trim Adj. Range±10%
Ripple & Noise, 20MHz BW
3.3V & 5V 40mV RMS, max.
100mV pk-pk, max.
12V & 15V60mV RMS, max.
150mV pk-pk, max.
24V100mV RMS, max.
240mV pk-pk, max.
Temperature Coefficient..... ±0.03%/°C
Short Circuit Protection..... Continuous
Line Regulation¹ ±0.2% max.
Load Regulation² ±0.2% max.
Over Voltage Protection trip Range, % Vo nom.....115-140%
Current Limit110% ~140% Nominal Output

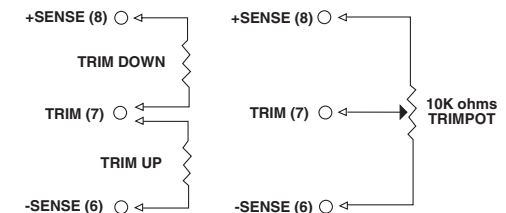
GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation VoltageInput/Output.....1500VDC min.
Input/Case.....1500VDC min.
Output/Case.....1500VDC min.
Isolation Resistance10⁷ ohm min.
Switching Frequency250KHz, Typ.
Operating Case Temperature-40°C to 100°C
Storage Temperature-55°C to +105°C
Thermal Shutdown, Case Temp.105°C Typ.
Dimensions2.28x2.40x0.50 inches
(57.9x61.0x12.7 mm)
Case Material.....Aluminum

Remote On/Off Control



External Output Trim



PIN CONNECTION

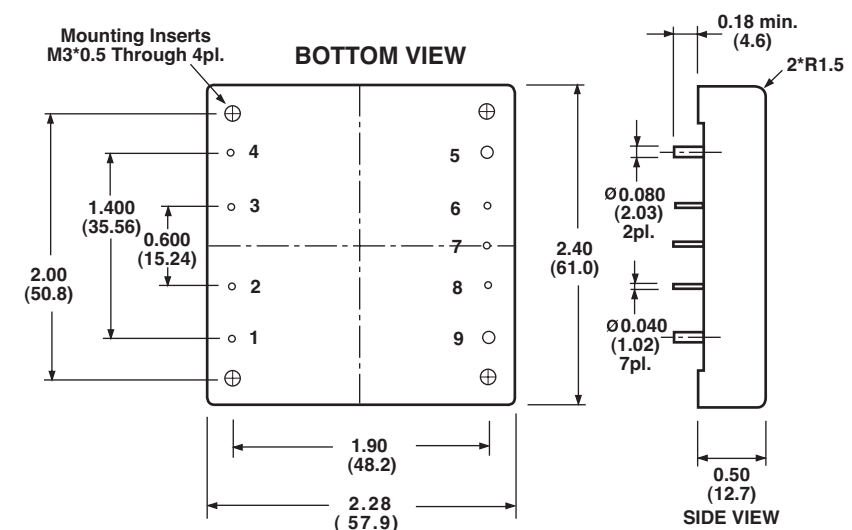
Pin	Function
1	+V Input
2	ON/OFF
3	CASE
4	-V Input
5	-V Output
6	-Sense
7	Trim
8	+Sense
9	+Vout

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

CASE HB

All Dimensions In Inches(mm)
Tolerance Inches: x.xx= ±0.02, x.xxx= ±0.010
Millimeters: x.x= ±0.5, x.xx= ±0.25



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

Mouser Electronics

Authorized Distributor

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Cincon:

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