

100 Watt, CHB-W Series, DC-DC Converter (Single Output)



- Wide 4:1 Input Range
- Tightly Regulated Outputs
- 1500V Isolation
- Industry Standard Encapsulated Package
- Five Sided Metal Case
- Continuous Short Circuit Protection
- High Efficiency up to 88%
- -40 to +100 °C Operational Temperature Range



Specification (typical values shown)

Input Ranges.....	9~36 Volts, 18~75 Volts
Outputs.....	Single (see table below plus trim range of +/-10%)
Line Regulation.....	+/-0.2% max. (across full input range)
Load Regulation.....	+/-0.2% max. (zero load to full load)
Efficiency.....	See table for each model
Short Circuit Protection.....	Continuous
Over Current Protection.....	110~140% of nominal rated output
Isolation Voltage.....	I/P~O/P: 1.5kVDC, I/P&O/P~Case: 1.5kVDC
Switching Frequency.....	250kHz
Operating Temperature.....	-40 to +100 °C case temperature @ full load
Thermal Shutdown.....	105 °C (typ.) case temperature
Storage Temperature.....	-55 to +105 °C
Approval.....	UL(cUL)
Case Material.....	Aluminium, 5 sided shield

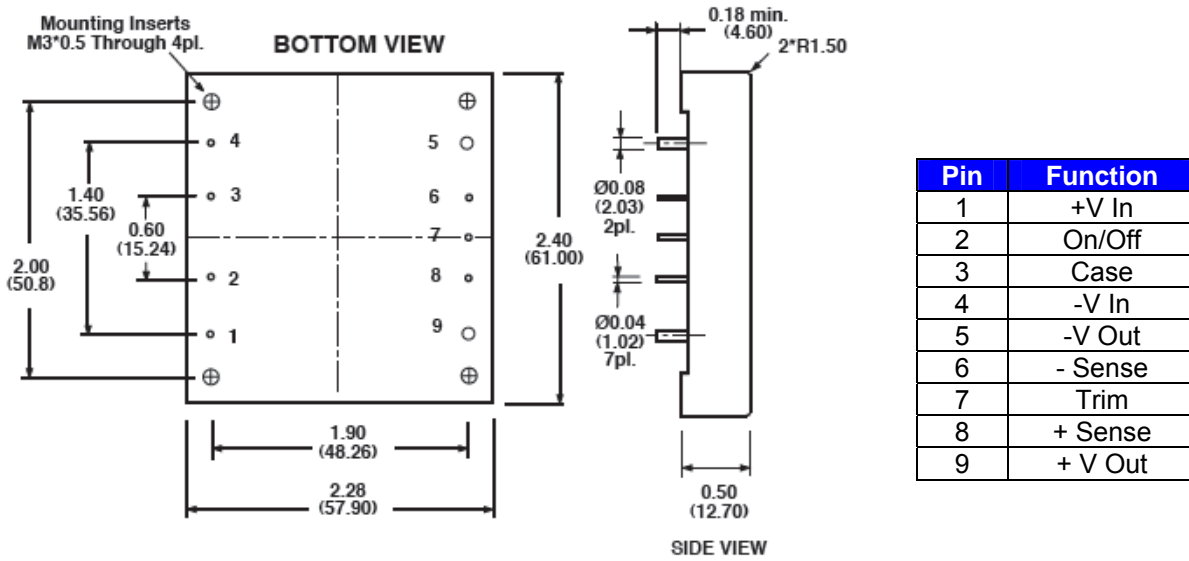
Models and Ratings

Model	Input Range	Output Voltage	Output Current	Efficiency
CHB100W-24S3V3	9~36 VDC	3.3 V	20.0 A	81.5%
CHB100W-24S05	9~36 VDC	5.0 V	20.0 A	83.5%
CHB100W-24S12	9~36 VDC	12.0 V	8.3 A	85%
CHB100W-24S15	9~36 VDC	15.0 V	6.7 A	86.5%
CHB100W-24S24	9~36 VDC	24.0 V	4.17 A	86%
CHB100W-48S3V3	18~75 VDC	3.3 V	20.0 A	80.5%
CHB100W-48S05	18~75 VDC	5.0 V	20.0 A	86%
CHB100W-48S12	18~75 VDC	12.0 V	8.3 A	86.5%
CHB100W-48S15	18~75 VDC	15.0 V	6.7 A	87.5%
CHB100W-48S24	18~75 VDC	24.0 V	4.17 A	88%

For mechanical data and pinout, see next page

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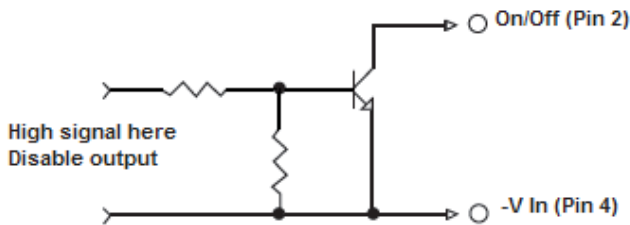
Mechanical Details and Pin-Out



Note:

Standard remote on/off, >3.5 VDC or Open Circuit = Output on, <1.8 Volts = Output off
 For negative logic remote on/off, add suffix "N" to the part number, e.g. CHB100W-24S12N

Remote On/Off Control



External Output Trim

