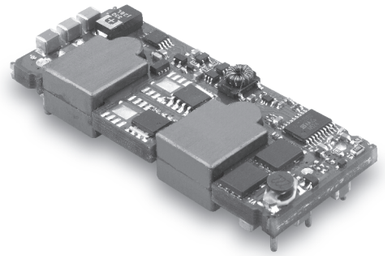
CEB75

SERIES

30-84 WATT 1/8 BRICK DC-DC CONVERTERS



RoHS

Features

- 30-84W Isolated Output
- Eighth Brick Package
- Regulated Outputs
- Efficiency to 92%
- 1500VDC Isolation
- Input Under Voltage Protection
- Over Current Protection
- Over Temperature Protection
- Remote On/Off Control

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	SIZE
			MIN.	MAX.	NO LOAD	FULL LOAD		
CEB75-48S1V0	36-75 VDC	1.0 VDC	0 mA	30A	60 mA	753mA	83	Eighth-Brick
CEB75-48S1V2	36-75 VDC	1.2 VDC	0 mA	30A	60 mA	882mA	85	Eighth-Brick
CEB75-48S1V5	36-75 VDC	1.5 VDC	0 mA	30A	60 mA	1090mA	86	Eighth-Brick
CEB75-48S1V8	36-75 VDC	1.8 VDC	0 mA	30A	60 mA	1293mA	87	Eighth-Brick
CEB75-48S2V5	36-75 VDC	2.5 VDC	0 mA	25A	60 mA	1463mA	89	Eighth-Brick
CEB75-48S3V3	36-75 VDC	3.3 VDC	0 mA	20A	60 mA	1528mA	90	Eighth-Brick
CEB75-48S05	36-75 VDC	5.0 VDC	0 mA	15A	60 mA	1736mA	90	Eighth-Brick
CEB75-48S12	36-75 VDC	12 VDC	0 mA	7A	70 mA	1902mA	92	Eighth-Brick

NOTE: 1. Nominal Input Voltage 48 VDC

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....48V.....36 – 75V
Under voltage lockout ..... power up .....35V typ.
power down ..... 33V typ.
Input Filter .....LC Type
Positive Logic Remote on/off Control (see Note4 & 5)
Input Filter.....PI Type
12Vout.....LC Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....±1.0% max.
Transient Response :25% Step Load Change.....<400u sec.
Ripple and Noise, 20MHz BW .....100mV p-p max.
Temperature Coefficient.....±0.03%/C max.
Short Circuit Protection.....Continuous / Hiccup
Line Regulation[1].....±.0.2% max.
Load Regulation[2].....±0.5% max.
Over Voltage Protection Trip Range, %Vo nom.....115%-140%
External Trim Adj. Range[4].....±10%
Current Limit..... 110% - 160% Nominal Output

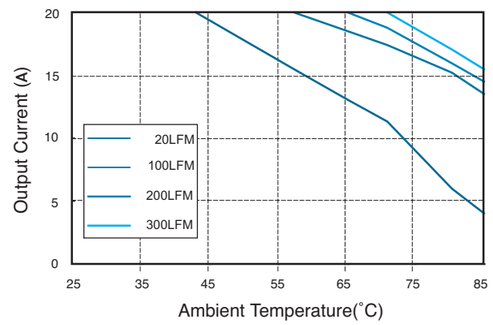
GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation Voltage.....1500 VDC min.
Isolation Resistance .....10^7 Ohms min.
Switching Frequency .....250KHz typ
1V/1V2/1V5/1V8/5V.....200 KHz typ.
12Vout.....350KHz Typ.
Over Temperature Protection .....120˚C typ.
Operating Ambient Temperature Range..... -40˚C to +85˚C
Storage Temperature Range ..... -40˚C to +125˚C
Dimensions.....2.30 x 0.90 x 0.39 inches
(58.4 x 22.9 x 10.0 mm)
Weight.....26g

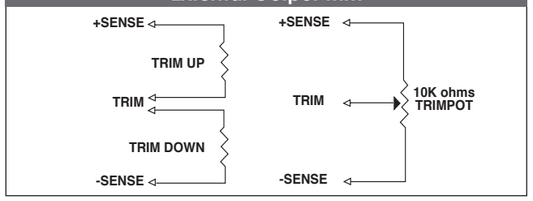
NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to Zero Load
3.The output ripple and noise is measured with 10uF tantalum and 1uF Ceramic capacitor across output.
4. Logic Compatibility ..... Open Collector ref to -Input
   Module ON ..... Open Circuit
   Module OFF ..... < 1.2Vdc
5. Suffix "N" to the Model Number with Negative Logic Remote ON/OFF
   Module ON ..... < 1.2Vdc
   Module OFF ..... Open Circuit
6. Trim-up.....Connect a Resistor Between the Trim Pin and+Sense
   Trim-Down.....Connect a Resistor Between the Trim Pin and-Sense

Typical Derating Curve for CEB75-48S3V3



External Output Trim

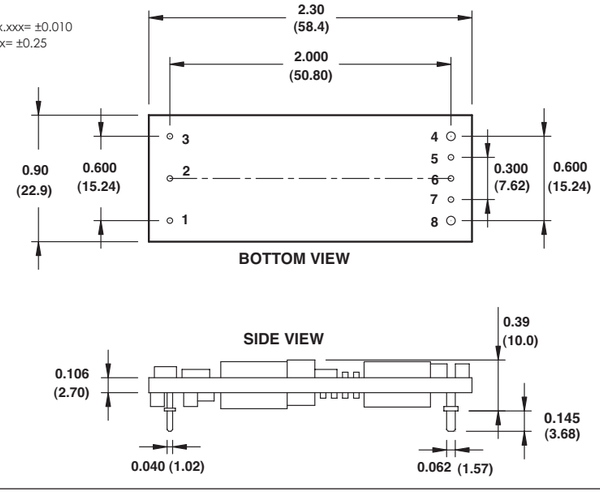


PIN CONNECTION

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

SIZE EB

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.