



CEB75 SERIES 30 TO 84 WATT OPEN FRAME DC-DC CONVERTERS

FEATURE

- * 30 - 84W Isolated Output
- * Efficiency up to 92%
- * Fixed Switching Frequency
- * Input under-voltage Protection
- * Over Temperature Protection
- * Over Current Protection
- * Remote ON/OFF
- * Industry Standard Eighth Brick Package
- * Fully Isolated 1500VDC



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	EB
CEB75-48S1V2	36-75 VDC	1.2 VDC	0 mA	30A	60 mA	882mA	85	EB
CEB75-48S1V5	36-75 VDC	1.5 VDC	0 mA	30A	60 mA	1090mA	86	EB
CEB75-48S1V8	36-75 VDC	1.8 VDC	0 mA	30A	60 mA	1293mA	87	EB
CEB75-48S2V5	36-75 VDC	2.5 VDC	0 mA	25A	60 mA	1463mA	89	EB
CEB75-48S3V3	36-75 VDC	3.3 VDC	0 mA	20A	60 mA	1528mA	90	EB
CEB75-48S05	36-75 VDC	5.0 VDC	0 mA	15A	60 mA	1736mA	90	EB
CEB75-48S12	36-75 VDC	12 VDC	0 mA	7A	70 mA	1902mA	92	EB

NOTE : 1. Nominal Input Voltage 48 VDC

SPECIFICATIONS

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

INPUT SPECIFICATIONS:

Input Voltage Range.....48V.....36 – 75V

Under voltage lockout power up35V typ.
power down33V typ.

Positive Logic Remote on/off Control (see Note4 &5)

Input FilterPI Type
12Vout.....LC Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy..... $\pm 1.0\%$ max.
Transient Response :25% Step Load Change.....<400u sec.
Ripple and Noise, 20MHz BW100mV p-p max.
Temperature Coefficient..... $\pm 0.03\%/C$ max.
Short Circuit Protection.....Continuous/hiccup
Line Regulation, Note1..... $\pm 0.2\%$ max.
Load Regulation, Note2..... $\pm 0.5\%$ max.
Over Voltage Protection Trip Range, %Vo nom.....115%-140%
External Trim Adj. Range, Note6..... $\pm 10\%$
Current Limit.....110% - 160% Nominal Output

GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation Voltage.....1500 VDC min.

Isolation Resistance 10^7 Ohms min.

Switching Frequency250KHz 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

Power De-rating Curverefer to Application Note

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 :

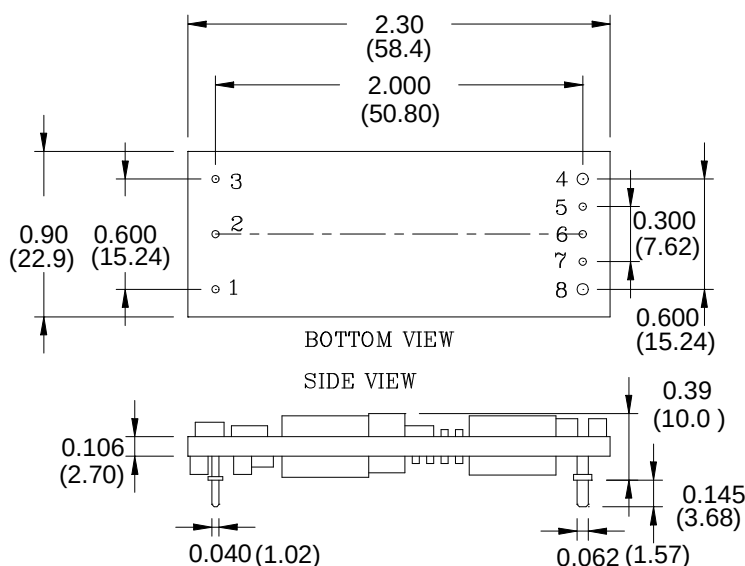
1. Measured From High Line to Low Line
2. Measured From Full Load to Zero Load
3. The output ripple and noise is measured with 10uF tantalum and 1uF Ceramic capacitor across output.
4. Logic Compatibility Open Collector ref to -Input
Module ON Open Circuit
Module OFF < 1.2Vdc
5. Suffix "N" to the Model 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

SIZE EB Dimensions :

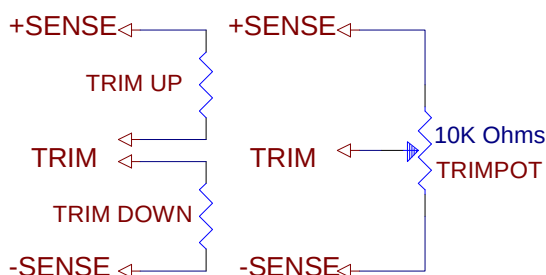
All Dimensions in Inches(mm)

Tolerances: X.XX in. ± 0.02 in. (X.X mm ± 0.5 mm)

X.XXX in. ± 0.010 in. (X.XX mm ± 0.25 mm)

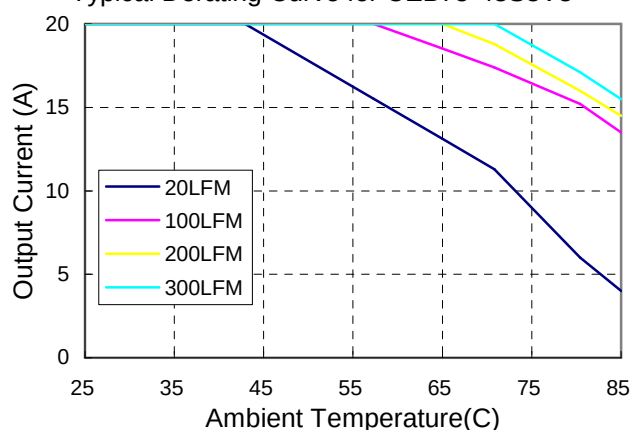


EXTERNAL OUTPUT TRIM



PIN CONNECTION	
Pin	Function
1	+ Vin
2	ON/OFF
3	- Vin
4	- Vout
5	- Sense
6	Trim
7	+Sense
8	+ Vout

Typical Derating Curve for CEB75-48S3V3



Mouser Electronics

Authorized Distributor

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Cincon:

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[CEB75-48S12](#)