



CEB75 SERIES 62 TO 84 WATT 1/8 BRICK DC-DC CONVERTERS

FEATURES

- * 62 - 84W Isolated Output
- * Eighth Brick Package
- * Regulated Outputs
- * Efficiency up to 92%
- * 1500VDC Isolation
- * Input Under Voltage Protection
- * Over Current Protection
- * Over Temperature Protection
- * Remote ON/OFF
- * Safety Meets UL60950-1



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	Capacitor Load max.
			MIN.	MAX.	NO LOAD	FULL LOAD		
CEB75-48S2V5	36-75 VDC	2.5 VDC	0 mA	25A	60 mA	1463mA	89	10000μF
CEB75-48S3V3	36-75 VDC	3.3 VDC	0 mA	20A	60 mA	1528mA	90	10000μF
CEB75-48S05	36-75 VDC	5.0 VDC	0 mA	15A	50 mA	1736mA	90	10000μF
CEB75-48S12	36-75 VDC	12 VDC	0 mA	7A	70 mA	1902mA	92	1500μF

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
Input Surge Voltage (100ms max.)	48V	100Vdc max.
Under voltage lockout	power up	35V typ.
	power down	.33V typ.
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	<400us
Ripple and Noise, 20MHz BW	100mV p-p max.
Temperature Coefficient	±0.03%/C max.
Short Circuit Protection	Continuous/hiccup
Line Regulation (note 1)	±0.2% max.
Load Regulation (note 2)	±0.5% max.
Over Voltage Protection Trip Range, %Vo nom.	115%-140%
External Trim Adj. Range, Note6	±10%
Current Limit	110% - 160% Nominal Output
Start up time	105ms typ., 12Vout:20ms typ.

GENERAL SPECIFICATIONS:

Efficiency	See Table
Isolation Voltage	1500 VDC min.
Isolation Resistance	10 ⁷ Ohms min.
Isolation Capacitance	1000pF typ.
Switching Frequency	250KHz typ.
	5Vout: 200 KHz typ., 12Vout: 350KHz typ.
Over Temperature Protection	120°C typ.
Operating Ambient Temperature Range	-40°C to +85°C
Power De-rating Curve	refer 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

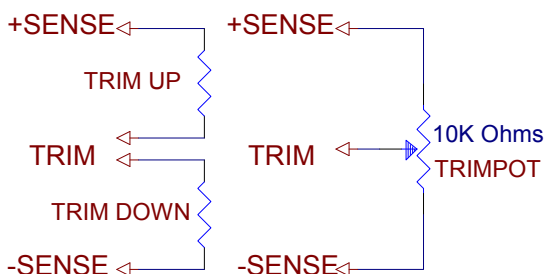
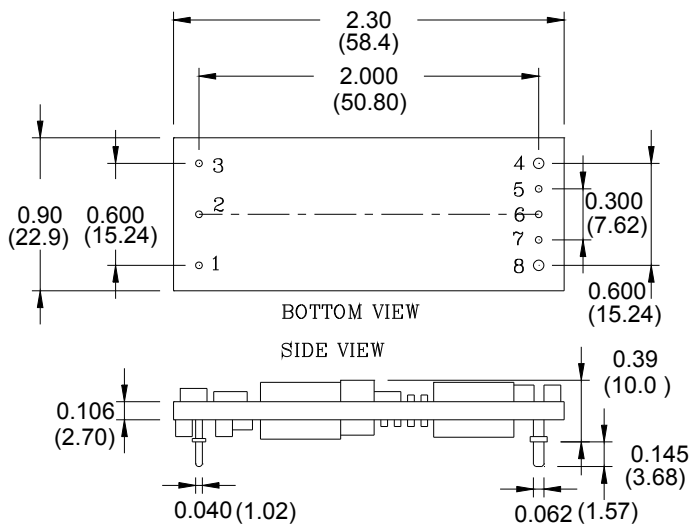
Module ON	< 1.2Vdc
Module OFF	Open Circuit
6. Trim-up connect a resistor between the trim pin and +Sense
Trim-down connect a resistor between the trim pin and -Sense

SIZE EB Dimensions:

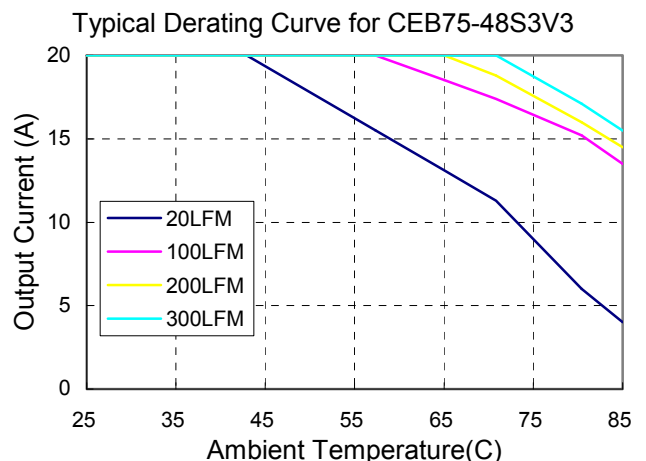
All Dimensions in Inches(mm)

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

X.XXX in.±0.010 in.(X.XX mm ±0.25 mm)



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



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