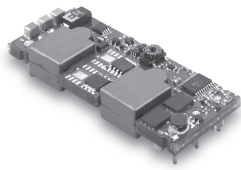


# CEB75

S E R I E S

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



### 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

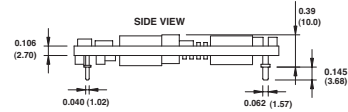
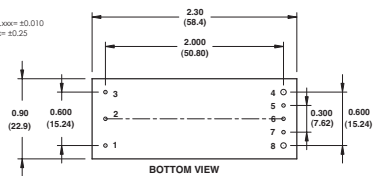
Specifications	
<b>INPUT SPECIFICATIONS:</b>	
Input Voltage Range	.....48V .....36 – 75V
Under voltage lockout	..... power up .....35V typ.
	..... power down .....33V typ.
Input Filter	.....LC Type
Positive Logic Remote on/off Control (see Note4 & 5)	.....PI Type
Input Filter:	.....12Vout.....LC Type
<b>OUTPUT SPECIFICATIONS:</b>	
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	.....±0.2% max.
Load Regulation	.....±0.5% max.
Over Voltage Protection Trip Range, %Vo nom.	.....115%-140%
External Trim Adj. Range <sup>6</sup>	.....±10%
Current Limit	.....110% - 160% Nominal Output
<b>GENERAL SPECIFICATIONS:</b>	
Efficiency	.....See Table
Isolation Voltage	.....1500 VDC min.
Isolation Resistance	.....10 <sup>10</sup> 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:

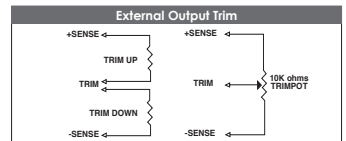
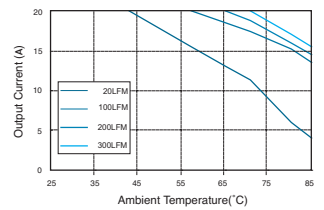
1. Measured from High Line to Low Line
2. Measured from Full Load to Zero Load
3. The output ripple and noise is measured with 10uF tantalum and 1uF Ceramic capacitor across output.
4. Logic Compatibility ..... Open Collector ref to input
- Module ON ..... Open Circuit
- Module OFF ..... ±1.2Vdc
5. Suffix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

### 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



### Typical Derating Curve for CEB75-48S3V3



### PIN CONNECTION

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

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