



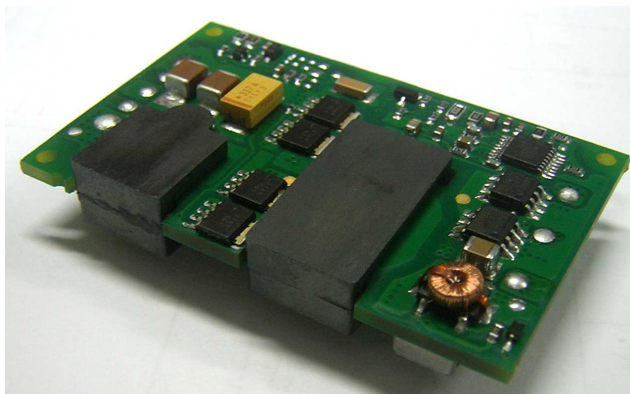
CQB125 SERIES

100 TO 125 WATT 1/4 BRICK

DC-DC CONVERTERS

FEATURES

- * 100 - 125W Isolated Output
- * Quarter Brick Package
- * Regulated Output
- * Efficiency 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		
CQB125-48S2V5	36-75 VDC	2.5 VDC	0 mA	40A	70 mA	2341mA	89	10000μF
CQB125-48S3V3	36-75 VDC	3.3 VDC	0 mA	35A	70 mA	2673mA	90	10000μF
CQB125-48S05	36-75 VDC	5.0 VDC	0 mA	25A	90 mA	2861mA	91	10000μF
CQB125-48S12	36-75 VDC	12 VDC	0 mA	10A	100 mA	2717mA	92	2200μF

NOTE: 1. Nominal Input Voltage 48VDC

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

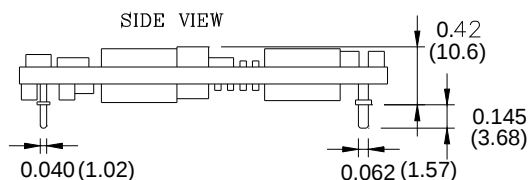
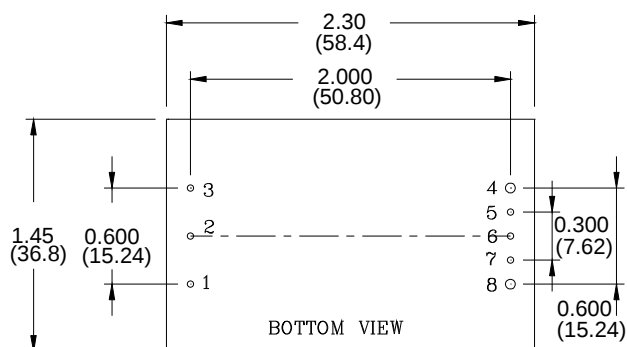
Input Voltage Range	48V	36 – 75V
Input Surge Voltage (100ms max.)	48V	100Vdc max.
Under voltage lockout	power up	35V typ.
	power down	33V typ.
Input Filter		PI Type
Positive Logic Remote on/off Control (see Note4 &5)		

Voltage Accuracy	±1.0% max.
Transient Response: 25% Step Load Change	<500us
Ripple and Noise, 20MHz BW	100mV p-p max.
5V/12Vout	120mVp-p max.
Temperature Coefficient	±0.03%/C max.
Short Circuit Protection.....	Continuous/hiccup
Line Regulation, Note1	±0.2% max.
Load Regulation, Note2	±0.5% max.
Over Voltage Protection Trip Range, %Vo nom.	115%-140%
External Trim Adj. Range, Note6	±10%
Current Limit	110% - 150% Nominal Output
Start up time	150ms typ.

Efficiency	See Table
Isolation Voltage	1500 VDC min.
Isolation Resistance	10^7 Ohms min.
Isolation Capacitance	1000pF typ.
Switching Frequency	250KHz typ.
5V/12Vout	300KHz 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 1.45 x 0.42 inches(58.4 x 36.8 x 10.6 mm)
Weight	40g

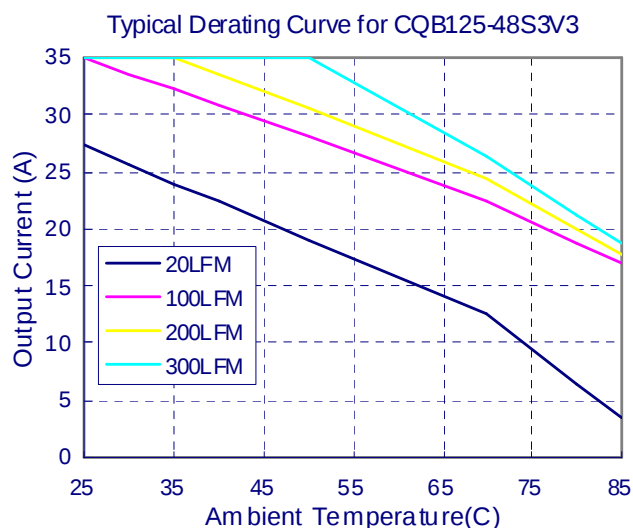
1. Measured From High Line to Low Line
2. Measured From Full Load to Zero Load
3. The output ripple and noise is measured with 10uF tantalum and 1uF Ceramic capacitor across output.
4. Logic Compatibility Open Collector ref to -Input
 - Module ON Open Circuit
 - Module OFF < 1.2Vdc
5. Suffix "N" to the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

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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