



# CHASSIS MOUNT DC-DC CONVERTERS QUARTER BRICK PACKAGE WITH HEATSINK 33 TO 100 WATT 4:1 INPUT RANGE



## FEATURES

- \* 33-100W Isolated Output
- \* 4:1 Wide Input Range
- \* Chassis Mount/Din Rail Mount
- \* Input Over Voltage Protection
- \* Regulated Outputs
- \* Continuous Short Circuit Protection
- \* CE Mark Meets 2004/108/EEC
- \* Safety Meets UL60950-1, EN60950-1, and IEC60950-1
- \* UL60950-1 Approval for DC Modules



## Ordering Information

| CHB(E)XXX-                  | XX                     | S             | XX  | N   | -XXX                                     | +X-XXXX                 |
|-----------------------------|------------------------|---------------|---|---|--|-------------------------|
| Model No.                   | Nominal Input Voltage  |               | Output Voltage  | Remote On/Off                             |  | Heat Sink Type (Option) |
| CQE50W<br>CQB75W<br>CQB100W | 24: 24VDC<br>48: 48VDC | Single Output | 3V3 : 3.3VDC<br>05 : 5VDC<br>12 : 12VDC<br>15 : 15VDC<br>24 : 24VDC | None: Positive Logic<br>N: Negative Logic | CM: Chassis Mount<br>DIN: Din Rail Mount | M-C448<br>M-C421        |
| CQE50W                      |                        |               | 48 : 48VDC  |   |  |                         |
| CQB100                      | 110: 110VDC            |               | 05 : 5VDC<br>12 : 12VDC<br>24 : 24VDC                               |   |  |                         |

Require input an aluminum capacitor connected in the table below.

| MODEL NUMBER         | INPUT   |
|----------------------|---|
| CQE50W-XXSXX-CM/DIN  | 220uF/100V for 24Vin Models<br>47uF/100V for 48Vin Models |
| CQB75W-XXSXX-CM/DIN  | 220uF/100V for 24Vin Models                               |
| CQB100W-XXSXX-CM/DIN | 100uF/100V for 24Vin Models<br>47uF/100V for 48Vin Models |
| CQB100-110SXX-CM/DIN | 120uF/200V  |

### NOTE:

1. Short JP1 to connect +S and +Vo, JP2 to connect -S and -Vo with local sense.
2. Remove jumper( JP1& JP2), terminal block port +S, -S & Trim can be used to Output Remote Sensing or Output Voltage Adjustment functional(see application note).
3. Thermal resistance is referenced to the application note.
4. Include TVS for input surge voltage protection.
5. Recommend external fuse for input reverse polarity protection (Include shunt diode inside).
6. Suffix "DIN" to the Model number with din mount, the clip is suitable for TS-35 din rail.

# POWER DERATING CURVE

Typical Derating Curves At Nominal Line, Full Load, and natural convection



## Mechanical Specification

| PIN CONNECTIONS |           |       |               |
|-----------------|-----------|-------|---------------|
| PIN             | FUNCTION  | PIN   | FUNCTION      |
| 1,2             | +V Input  | 10    | -Sense        |
| 3               | On/Off    | 11,12 | - V Output    |
| 4,5             | +V Input  | JP1   | Short +S& +Vo |
| 6,7             | +V Output | JP2   | Short -S& -Vo |
| 8               | +Sense    |       |               |
| 9               | Trim      |       |               |

Suffix -CM (Left Side) / Suffix-DIN(Right Side)

All Dimensions In Inches[mm]  
 Tolerance Inches:x.xx= ±0.02, x.xxx= ±0.010  
 Millimeters:x.x= ±0.5, x.xx=±0.25

