

EC4CE

5-6 WATT WIDE INPUT DC-DC CONVERTERS



Feature

- 5-6W Isolated Output
- 2:1 Input Range
- Efficiency to 82%
- Pi Input Filter
- Continuous Short Circuit Protection
- Regulated Outputs

| MODEL NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | INPUT CURRENT | | % EFF. | CASE |
|--------------|---------------|----------------|----------------|---------------|-----------|--------|------|
| | | | | NO LOAD | FULL LOAD | | |
| EC4CE01 | | 5 VDC | 1000 mA | 7.5 mA | 545 mA | 77 | |
| EC4CE02 | | 12 VDC | 470 mA | 7.5 mA | 585 mA | 80 | |
| EC4CE03 | 9-18 VDC | 15 VDC | 400 mA | 7.5 mA | 625 mA | 80 | C/S |
| EC4CE04 | | ±12 VDC | ±230 mA | 12 mA | 575 mA | 80 | |
| EC4CE05 | | ±15 VDC | ±190 mA | 12 mA | 590 mA | 80 | |
| EC4CE11 | | 5 VDC | 1000 mA | 5 mA | 265 mA | 78 | |
| EC4CE12 | | 12 VDC | 470 mA | 5 mA | 285 mA | 82 | |
| EC4CE13 | 18-36 VDC | 15 VDC | 400 mA | 5 mA | 305 mA | 82 | C/S |
| EC4CE14 | | ±12 VDC | ±230 mA | 7.5 mA | 285 mA | 81 | |
| EC4CE15 | | ±15 VDC | ±190 mA | 7.5 mA | 295 mA | 81 | |
| EC4CE21 | | 5 VDC | 1000 mA | 2 mA | 133 mA | 78 | |
| EC4CE22 | | 12 VDC | 470 mA | 2 mA | 143 mA | 81 | |
| EC4CE23 | 36-72 VDC | 15 VDC | 400 mA | 2 mA | 154 mA | 81 | C/S |
| EC4CE24 | | ±12 VDC | ±230 mA | 3 mA | 142 mA | 81 | |
| EC4CE25 | | ±15 VDC | ±190 mA | 3 mA | 147 mA | 81 | |

NOTE: 1. Nominal Input Voltage 12,24 or 48 VDC

Specifications

INPUT SPECIFICATIONS:

| | | |
|--------------------------|----------|---------|
| Input Voltage Range..... | 12V..... | 9-18V |
| | 24V..... | 18-36V |
| | 48V..... | 36-72V |
| Input Filter..... | | Pi Type |

OUTPUT SPECIFICATIONS:

| | | |
|---|-------------------------|----------------|
| Voltage Accuracy..... | | ± 2.0% max. |
| Voltage Balance (Dual)..... | | ± 1.0% / max. |
| Temperature Coefficient..... | | ± 0.05% / °C |
| Ripple and Noise, 20MHz BW..... | .5V..... | 100mV p-p max. |
| | 12V/15V..... | 1% p-p max. |
| Short Circuit Protection..... | | Continuous |
| Line Regulation, Single/Dual ¹ | | ± 0.5% |
| Load Regulation, Single ² | | ± 0.5% |
| | Dual ³ | ± 1.0% |

GENERAL SPECIFICATIONS:

| | | |
|--------------------------------------|--------------------|--|
| Efficiency..... | | See Table |
| Isolation Voltage..... | | 500 VDC min |
| Isolation Resistance..... | | 10 ⁹ ohms |
| Switching Frequency..... | | 100KHz, min |
| Operating Temperature Range..... | | -25°C to + 71°C |
| Case Temperature (Plastic case)..... | | 95°C max. |
| | (Copper case)..... | 100°C max. |
| Cooling..... | | Free-Air Convection |
| Storage Temperature Range..... | | -40°C to + 100°C |
| Dimensions..... | | 2 x 2 x 0.4 inches (50.8 x 50.8 x 10.2mm) |

CASE MATERIAL:

| | | |
|------------------------|--|---|
| Standard Models..... | | Non-Conductive Black Plastic |
| Suffix "M" Models..... | | Black Coated Copper with Non-Conductive Base |

NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 10% load
3. Measured From Full Load to 1/4 load

CASE C

STANDARD PIN CONFIGURATION
 *NP (NO PIN) ON SINGLE OUTPUT MODELS
 All Dimensions in Inches(mm)

