

EC3CB

S E R I E S

15 WATT EN55022 CLASS B DC-DC CONVERTERS



Features

- 15W Isolated Output
- 2"x 2" Six-Sided Shield Metal Case
- Regulated Outputs
- Efficiency to 82%
- Fixed 200KHz Switching Frequency
- Meets EN55022 Class B, Conducted
- Pi Input Filter
- Continuous Short Circuit Protection
- Alternative Pin Configuration

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	SIZE
				NO LOAD	FULL LOAD		
EC3CB01	9-18 VDC	5 VDC	3000 mA	30 mA	1660 mA	75	2" x 2"
EC3CB02		12 VDC	1250 mA	30 mA	1625 mA	78	
EC3CB03		15 VDC	1000 mA	30 mA	1625 mA	78	
EC3CB04		±12 VDC	±625 mA	35 mA	1620 mA	77	
EC3CB05		±15 VDC	±500 mA	35 mA	1620 mA	77	
EC3CB06		±5 VDC	±1500 mA	35 mA	1620 mA	77	
EC3CB07		3.3 VDC	3000 mA	30 mA	1178 mA	70	
EC3CB11	18-36 VDC	5 VDC	3000 mA	15 mA	812 mA	78	2" x 2"
EC3CB12		12 VDC	1250 mA	20 mA	772 mA	81	
EC3CB13		15 VDC	1000 mA	20 mA	772 mA	81	
EC3CB14		±12 VDC	±625 mA	25 mA	780 mA	80	
EC3CB15		±15 VDC	±500 mA	25 mA	780 mA	80	
EC3CB16		±5 VDC	±1500 mA	25 mA	780 mA	80	
EC3CB17		3.3 VDC	3000 mA	15 mA	557 mA	74	
EC3CB21	36-72 VDC	5 VDC	3000 mA	10 mA	390 mA	80	2" x 2"
EC3CB22		12 VDC	1250 mA	15 mA	381 mA	82	
EC3CB23		15 VDC	1000 mA	15 mA	381 mA	82	
EC3CB24		±12 VDC	±625 mA	20 mA	386 mA	81	
EC3CB25		±15 VDC	±500 mA	20 mA	386 mA	81	
EC3CB26		±5 VDC	±1500 mA	20 mA	386 mA	81	
EC3CB27		3.3 VDC	3000 mA	20 mA	271 mA	76	

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC
2. Alternative pin-out version. To order, suffix a "S" to the standard model number.

Specifications

INPUT SPECIFICATIONS:

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

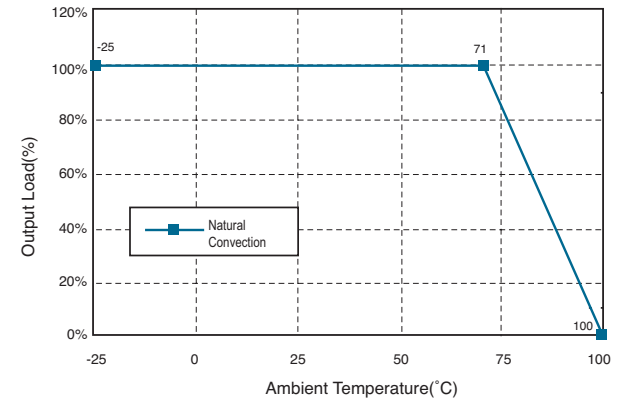
OUTPUT SPECIFICATIONS:

Voltage Accuracy
Single Output.....±1.0% max.
Dual + Output.....±1.0% max.
Dual - Output.....±3.0% max.
Voltage Balance Dual Output at Full Load.....±1.0% max.
Transient Response
Single 25% Step Load Change.....<500μ sec.
Dual FL-1/2L ±1% Error Band.....<500μ sec.
Ripple & Noise 20MHz BW.....10mV RMS. max.
75mV p-p max.
Temperature Coefficient.....±0.02%/°C
Short Circuit Protection.....Indefinite & Current Limit
Line Regulation¹ Single/Dual Output.....±0.2% max.
Load Regulation² Single/Dual Output.....±1.0% max.

GENERAL SPECIFICATIONS:

Efficiency.....See Table
Isolation Voltage.....500 VDC min.
Isolation Resistance.....10⁹ohms
Switching Frequency.....200KHz, typ.
Operating Ambient Temperature Range-25°C to +71°C
De-rating, Above 71°CLinearly to Zero power at 100°C
Case Temperature⁵.....100°C max
CoolingNatural Convection
Storage Temperature Range.....-40°C to + 100°C
EMI/RFI.....Conductive EMI Meet EN55022 Class B
Dimensions.....2.00 x 2.00 x 0.40 inches
(50.8 x 50.8 x 10.2mm)
Case Material.....Black Coated Copper With
Non-Conductive Base
Weight.....57g

EC3CB Series Derating Curve



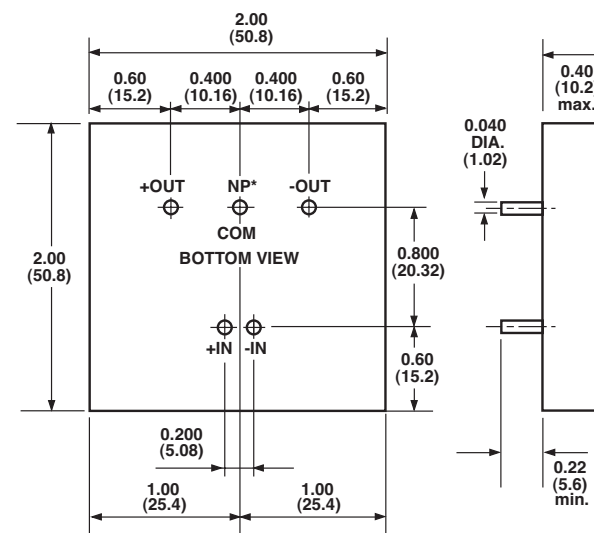
NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 Full Load
3. Determine the Correct Fuse Size by Calculating the Maximum DC Current Drain at Low Line Input, Maximum Load and Then Adding 20 to 25% to Get Desired Fuse Size.
4. Alternative Pin Configuration Suffix "S"
5. Maximum case temperature under any operating condition should not exceed 100°C.

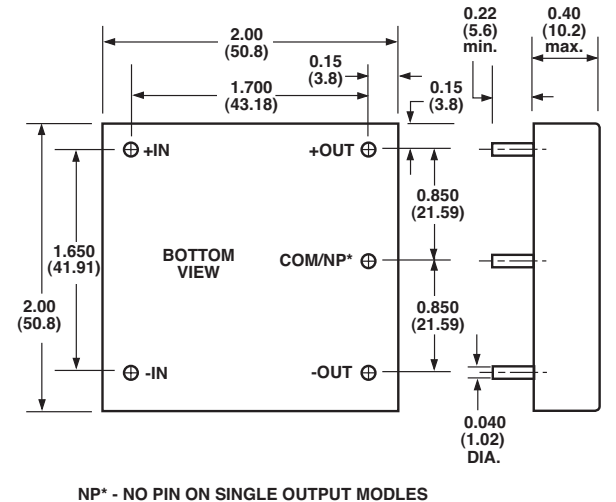
CASE C

All Dimensions In Inches(mm)
Tolerance Inches: .xx= ±.04, .xxx= ±.010
Millimeters: .x= ±1.0, .xx= ±0.25

STANDARD PIN CONFIGURATION



ALTERNATIVE PIN CONFIGURATION SUFFIX "S"



NP* - NO PIN ON SINGLE OUTPUT MODLES

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