

S E R I E S

EC3CB

15 WATT WIDE INPUT DC-DC CONVERTERS



Features

- 15W Isolated Output
- 2:1 Input Range
- Efficiency to 82%
- Six-Sided Shield
- 200KHz Switching Frequency
- Regulated Outputs
- Pi Input Filter
- Continuous Short Circuit Protection
- Meets EN55022 Class B, Conducted

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	CASE
EC3CB01		5 VDC	3000 mA	30 mA	1660 mA	75	
EC3CB02		12 VDC	1250 mA	30 mA	1625 mA	78	
EC3CB03		15 VDC	1000 mA	30 mA	1625 mA	78	
EC3CB04	9-18 VDC	±12 VDC	±625 mA	35 mA	1620 mA	77	C/S
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		5 VDC	3000 mA	15 mA	812 mA	78	
EC3CB12		12 VDC	1250 mA	20 mA	772 mA	81	
EC3CB13		15 VDC	1000 mA	20 mA	772 mA	81	
EC3CB14	18-36 VDC	±12 VDC	±625 mA	25 mA	780 mA	80	C/S
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		5 VDC	3000 mA	10 mA	390 mA	80	
EC3CB22		12 VDC	1250 mA	15 mA	381 mA	82	
EC3CB23		15 VDC	1000 mA	15 mA	381 mA	82	
EC3CB24	36-72 VDC	±12 VDC	±625 mA	20 mA	386 mA	81	C/S
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.



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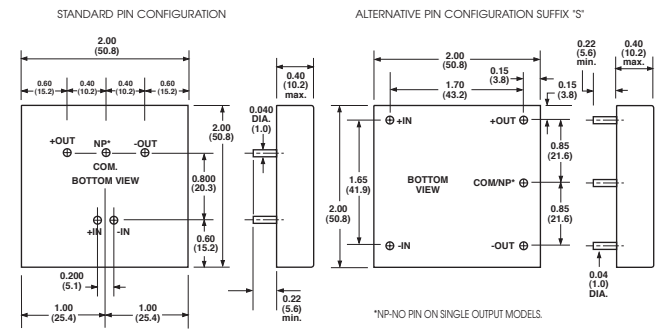
Specifications

INPUT SPECIFICATIONS:	
Input Voltage Range.....	12V.....9-18V 24V.....18-36V 48V.....36-72VPI 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. .....±0.02%/°C
Temperature Coefficient.....	.....75mV p-p max.
Short Circuit Protection.....	.....Indefinite & Current Limit
Line Regulation* Single/Dual Output.....	.....±0.2% max.
Load Regulation* Single/Dual Output.....	.....±1.0% max.
GENERAL SPECIFICATIONS:	
Efficiency.....	.....See Table
Isolation Voltage.....	.....500 VDC min.
Isolation Resistance.....	.....10 ohms
Switching Frequency.....	.....200KHz, typ.
Operating Temperature Range.....	.....25°C to +71°C
Case Temperature.....	.....100°C max.
Cooling.....	.....Free-Air Convection
Storage Temperature Range.....	.....-40°C to +100°C
EMI/RFI.....	.....Conductive EMI Meet EN55022 Class B
Dimensions.....	.....2 x 2 x 0.4 inches .....(50.8 x 50.8 x 10.2mm)
Case Material.....	.....Black Coated Copper With.....Non-Conductive Base
Weight.....	.....57g

- 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'

CASE C

All Dimensions in Inches(mm)
Tolerance: +/-0.04, holes +/-0.10



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