

EC5BE

15 WATT WIDE INPUT DC-DC CONVERTERS



Features

- 15W Isolated output
- Efficiency 83%
- 2:1 Input Range
- Continuous Short Circuit Protection
- Meets EN55022 Class A, Conducted
- Remote On/Off Option

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC5BE01		5 VDC	3000 mA	20 mA	1602 mA	78	
EC5BE02		12 VDC	1250 mA	20 mA	1524 mA	82	
EC5BE03		15 VDC	1000 mA	20 mA	1524 mA	82	
EC5BE04	9-18 VDC	±12 VDC	±625 mA	30 mA	1506 mA	83	B
EC5BE05		±15 VDC	±500 mA	30 mA	1506 mA	83	
EC5BE06		±5 VDC	±1500 mA	30 mA	1563 mA	80	
EC5BE07		3.3 VDC	3000 mA	20 mA	1086 mA	76	
EC5BE11		5 VDC	3000 mA	20 mA	780 mA	80	
EC5BE12		12 VDC	1250 mA	20 mA	762 mA	82	
EC5BE13		15 VDC	1000 mA	20 mA	762 mA	82	
EC5BE14	18-36 VDC	±12 VDC	±625 mA	25 mA	755 mA	83	B
EC5BE15		±15 VDC	±500 mA	25 mA	755 mA	83	
EC5BE16		±5 VDC	±1500 mA	25 mA	772 mA	81	
EC5BE17		3.3 VDC	3000 mA	20 mA	543 mA	76	
EC5BE21		5 VDC	3000 mA	15 mA	391 mA	80	
EC5BE22		12 VDC	1250 mA	15 mA	377 mA	83	
EC5BE23		15 VDC	1000 mA	15 mA	377 mA	83	
EC5BE24	36-72 VDC	±12 VDC	±625 mA	20 mA	377 mA	83	B
EC5BE25		±15 VDC	±500 mA	20 mA	377 mA	83	
EC5BE26		±5 VDC	±1500 mA	20 mA	381 mA	82	
EC5BE27		3.3 VDC	3000 mA	15 mA	271 mA	76	

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

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	12V9-18V
	24V18-36V
	48V36-72V
Input Filter.....	PI Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy	
Single Output.....	±1.0% max.
Dual + Output.....	±1.0% max.
Dual - Output.....	±1.0% max.
Voltage Balance (Dual).....	±1.0%/max.
Transient Response	
Single 25% Step Load Change.....	<500µ sec.
Dual FL, 1/2L ±1% Error Band.....	<500µ sec.
Ripple and Noise, 20MHz BW.....	75mV p-p max.
Temperature Coefficient.....	±0.02%/°C max.
Short Circuit Protection.....	Continuous
Line Regulation ¹ Single/Dual Output.....	±0.2% max.
Load Regulation ² Single/Dual Output.....	±1.0% max.

GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage.....	500 VDC min.
Isolation Resistance.....	10 ⁹ ohms min.
Switching Frequency.....	300KHz, typ.
Operating Temperature Range.....	-25°C to + 71°C
Case Temperature.....	100°C max.
Storage Temperature Range.....	-40°C to + 100°C
EMI/RFI.....	Six sided Continuous Shield
Dimensions.....	2 x 1 x 0.4 inches (50.8 x 25.4 x 10.2 mm)
Case Material.....	Black Coated Copper with Non-Conductive Base

NOTE:

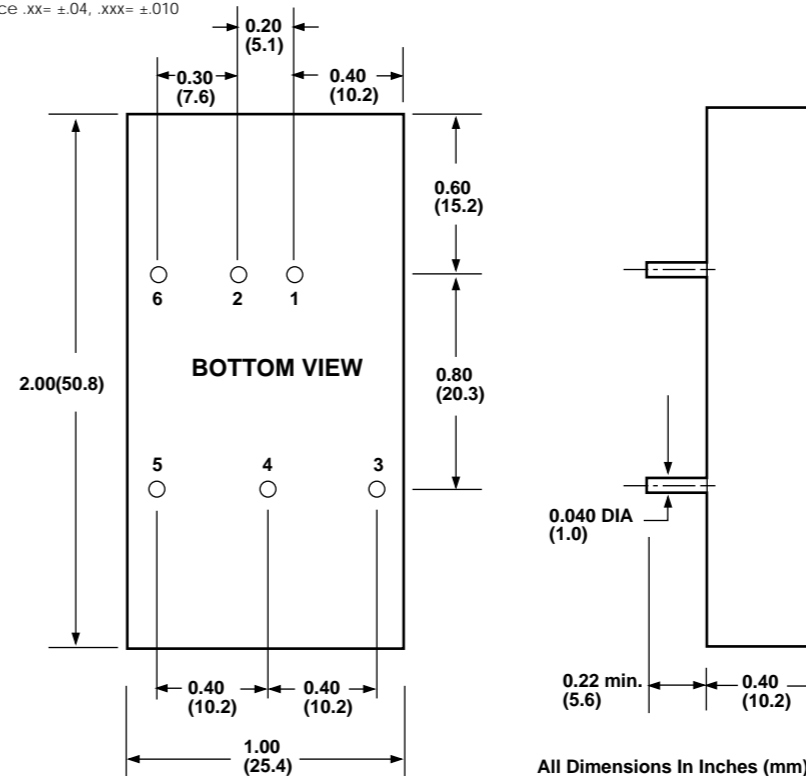
1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 Load

OPTION:

1. Suffix "T" to the Model Number with Remote On/Off Remote On/Off Control:
Logic Compatibility.....COMS or Open Collector TTL
EC-ON.....>+5.5VDC or Open Circuit
EC-OFF.....<1.8 VDC
Control Common.....Referenced to Input Minus
Range > ±10%, Single Output Only

CASE B

All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xxx= ±.010



Tolerance .xx= ±.04, .xxx= ±.010

PIN CONNECTION

Pin	Function
1.	+V Input
2.	-V Input
3.	+V Output
4.	Common/NP/Trim (Option)
5.	-V Output
6.	NP/Remote (Option)

NP*-NO PIN ON SINGLE OUTPUT

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