

# EC5B

## 15 WATT WIDE INPUT DC-DC CONVERTERS



### Feature

- 15W Isolated output
- Efficiency 82%
- 2:1 Input Range
- Pi Input Filter
- Continuous Short Circuit Protection
- Conductive EMI Meet EN55022 Class A

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CASE
			MIN.	MAX.	NO LOAD	FULL LOAD		
EC5B01		5 VDC	150 mA	3000 mA	20 mA	1650 mA	77	
EC5B02		12 VDC	65 mA	1250 mA	20 mA	1570 mA	80	
EC5B03		15 VDC	50 mA	1000 mA	20 mA	1570 mA	80	
EC5B04	9-18 VDC	±12 VDC	±35 mA	±625 mA	30 mA	1570 mA	80	B
EC5B05		±15 VDC	±25 mA	±500 mA	30 mA	1570 mA	80	
EC5B06		±5 VDC	±75 mA	±1500 mA	30 mA	1570 mA	80	
EC5B07		3.3 VDC	150 mA	3000 mA	20 mA	1086 mA	76	
EC5B11		5 VDC	150 mA	3000 mA	20 mA	800 mA	78	
EC5B12		12 VDC	65 mA	1250 mA	20 mA	780 mA	80	
EC5B13		15 VDC	50 mA	1000 mA	20 mA	780 mA	80	
EC5B14	18-36 VDC	±12 VDC	±35 mA	±625 mA	30 mA	780 mA	80	B
EC5B15		±15 VDC	±25 mA	±500 mA	30 mA	780 mA	80	
EC5B16		±5 VDC	±75 mA	±1500 mA	30 mA	780 mA	80	
EC5B17		3.3 VDC	150 mA	3000 mA	20 mA	543 mA	76	
EC5B21		5 VDC	150 mA	3000 mA	10 mA	390 mA	80	
EC5B22		12 VDC	65 mA	1250 mA	10 mA	380 mA	82	
EC5B23		15 VDC	50 mA	1000 mA	10 mA	380 mA	82	
EC5B24	36-72 VDC	±12 VDC	±35 mA	±625 mA	15 mA	380 mA	82	B
EC5B25		±15 VDC	±25 mA	±500 mA	15 mA	380 mA	82	
EC5B26		±5 VDC	±75 mA	±1500 mA	15 mA	380 mA	82	
EC5B27		3.3 VDC	150 mA	3000 mA	15 mA	272 mA	76	

NOTE: 1. Nominal Input Voltage 24 or 48 VDC

# Specifications

## INPUT SPECIFICATIONS:

Input Voltage Range.....	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.....	±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.....	100mV p-p max.
Temperature Coefficient.....	±0.02%/°Cmax.
Short Circuit Protection.....	Continuous
Line Regulation <sup>1</sup> Single/Dual Output.....	±0.2% max.
Load Regulation <sup>2</sup> Single/Dual Output.....	±1.0% max.

## GENERAL SPECIFICATIONS:

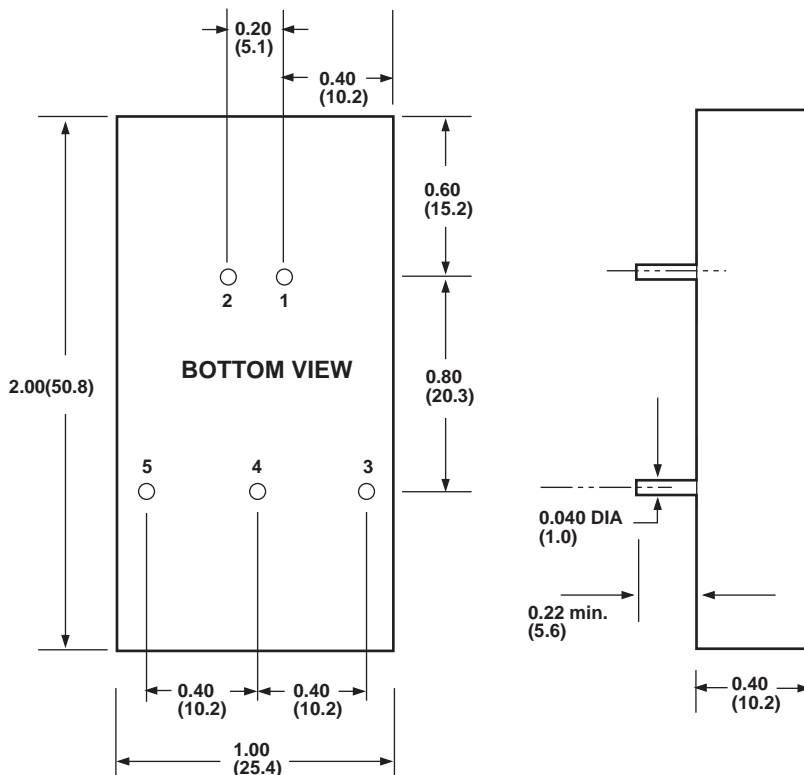
Efficiency.....	See Table
Isolation Voltage.....	500 VDC min.
Isolation Resistance.....	10 <sup>9</sup> ohms
Switching Frequency.....	200KHz, min.
Operating Temperature Range.....	-25°C to + 71°C
Case Temperature.....	100°C max.
Cooling.....	Free-Air Convection
Storage Temperature Range.....	-40°C to + 100°C
EMI/RFI.....	Six sided Continuous Shield
Dimensions.....	2 x 1 x 0.4 inches (50.8 x 25.4 x 10.2 m/m)
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
3. A Minimum Load On the Output is Necessary to Maintain Regulation

## CASE B

All Dimensions In Inches(mm)



### PIN CONNECTION

Pin	Function
1.	+Input
2.	-Input
3.	+Output
4.	Common/NP
5.	-Output

NP\* -NO PIN ON SINGLE OUTPUT