S E R I E S

EC4BW

10 WATT WIDE INPUT DC-DC CONVERTERS



Features

- 10W Isolated Output
- Efficiency to 82%
- 4:1 Input Range
- Pi Input Filter
- Continuous Short Circuit Protection
- Meets EN55022 Class A, Conducted

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	CASE
EC4BW01		5 VDC	2000 mA	15 mA	534 mA	78	
EC4BW02		12 VDC	830 mA	15 mA	520 mA	80	
EC4BW03		15 VDC	666 mA	15 mA	520 mA	80	
EC4BW04	9-36VDC	±12 VDC	±415 mA	20 mA	520 mA	80	B
EC4BW05		±15VDC	±333mA	20 mA	520 mA	80	
EC4BW06		±5 VDC	±1000mA	20 mA	520 mA	80	
EC4BW07		3.3 VDC	2000mA	15 mA	362 mA	76	
EC4BW11		5 VDC	2000 mA	10 mA	260 mA	80	
EC4BW12		12 VDC	830 mA	10 mA	257 mA	81	
EC4BW13		15 VDC	666 mA	10 mA	257 mA	81	
EC4BW14	18-72VDC	±12 VDC	±415 mA	15 mA	257 mA	81	B
EC4BW15		±15 VDC	±333 mA	15 mA	253 mA	82	
EC4BW16		±5 VDC	±1000mA	15 mA	253 mA	82	
EC4BW17		3.3 VDC	2000mA	10 mA	181 mA	76	

NOTE:1.Nominal Input Voltage 24 or 48 VDC

Specifications

INPUT SPECIFICATIONS:

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

OUTPUT SPECIFICATIONS:

Voltage Accuracy Single Output.....±1.0% max.
Voltage Accuracy Dual + Output.....±1.0% max.
Voltage Accuracy Dual - Output.....±1.0% max.
Voltage Balance Dual Output at Full Load..... ±1.0% max.
Transient Response
Single 25% Step Load Change.....<500µ sec.
Dual FL-1/2 ±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:

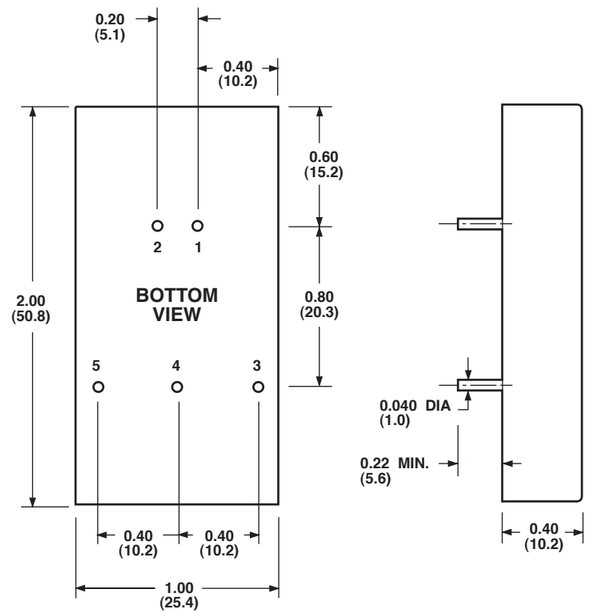
Efficiency.....See Table
Isolation Voltage.....500 VDC
Isolation Resistance .....10^9Ohms
Switching Frequency .....300KHz typ.
Operating Temperature Range.....-25˚C to + 71˚C
Case Temperature.....100˚C max.
Cooling.....Free-Air Convection
Storage Temperature Range .....-40˚C to +100˚C
EMI / RFI .....Six 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
Weight.....32g

NOTE:

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

CASE B

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



PIN CONNECTION

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

NP*-NO PIN ON SINGLE OUTPUT

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