

# EC3AW

## 3 WATT WIDE INPUT DC-DC CONVERTERS



### Features

- 3W Isolated Output
- 24-Pin DIP Package
- Efficiency to 80%
- Continuous Short Circuit Protection
- 4 : 1 Input Range
- Regulated Outputs
- Pi Input Filter

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC3AW01		5 VDC	600 mA	15 mA	174 mA	72	
EC3AW02		12 VDC	250 mA	15 mA	165 mA	76	
EC3AW03		15 VDC	200 mA	15 mA	165 mA	76	
EC3AW04	9-36VDC	±5 VDC	±300 mA	25 mA	179 mA	70	A
EC3AW05		±12 VDC	±125 mA	25 mA	174 mA	72	
EC3AW06		±15 VDC	±100 mA	25 mA	174 mA	72	
EC3AW07		3.3 VDC	600 mA	15 mA	117 mA	70	
EC3AW11		5 VDC	600 mA	7.5 mA	87 mA	72	
EC3AW12		12 VDC	250 mA	7.5 mA	81 mA	77	
EC3AW13		15 VDC	200 mA	7.5 mA	81 mA	77	
EC3AW14	18-72VDC	±5 VDC	±300 mA	12 mA	88 mA	71	A
EC3AW15		±12 VDC	±125 mA	12 mA	87 mA	72	
EC3AW16		±15 VDC	±100 mA	12 mA	87 mA	72	
EC3AW17		3.3 VDC	600 mA	7.5 mA	58 mA	70	

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.....	± 2.0% max.
Voltage Balance (Dual).....	± 1.0% max.
Temperature Coefficient.....	± 0.05% / °C
Ripple and Noise, 20MHz BW, Single & ±5V.....	100mV p-p max.
Dual.....	1% p-p max.
Short Circuit Protection.....	Continuous
Line Regulation <sup>1</sup> , Single/Dual.....	± 0.5% max.
Load Regulation, Single <sup>2</sup> .....	± 0.5% max.
Dual <sup>3</sup> .....	± 1% max.

#### GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Resistance .....	10 <sup>9</sup> Ohms
Switching Frequency .....	100kHz min.
Operating Temperature Range.....	-25°C to +71°C
Case Temperature (Plastic case).....	95°C max.
(Copper case).....	100°C max.
Cooling.....	Free-Air Convection
Storage Temperature Range .....	-40°C to +100°C
Dimensions.....	1.25 x 0.8 x 0.4 inches (31.8 x 20.3 x 10.2 mm)
Weight.....	12.5g

#### ISOLATION VOLTAGE:

500 VDC min. ....	Standard Models
3K VDC min <sup>4</sup> . ....	Suffix "H" Models

#### CASE MATERIAL:

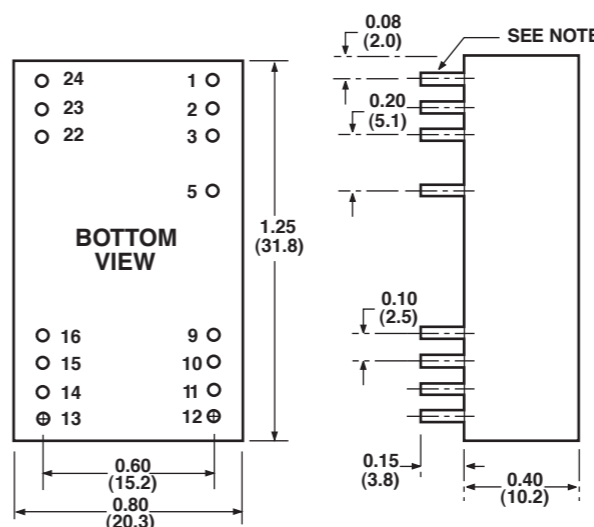
Standard Models.....	Non-Conductive Black Plastic
Suffix "M" Models <sup>5</sup> .....	Black Coated Copper with Non-Conductive Base

#### NOTE:

1. Measured From High Line to low Line
2. Measured From Full Load to 10% Load
3. Measured From Full Load to 1/4 Load
4. Non-Conductive Black Plastic Only
5. Suffix "HM" 1.5KVDC Instead of 3KVDC Isolation

### CASE A

NOTE: Pin Size is 0.02" Inch (0.5mm) DIA  
All Dimensions In Inches(mm)  
Tolerance .xx= ±0.2, .xxx= ±0.10



Pin	500 VDC		1.5K & 3K VDC		
	Single Output	Dual Output	Pin	Single Output	Dual Output
1	+V Input	+V Input	1	NP	NP
2	NC	-V Output	2	-V Input	-V Input
3	NC	Common	3	-V Input	-V Input
5	NP	NP	5	NP	NP
9	NP	NP	9	NC	Common
10	-V Output	Common	10	NC	NC
11	+V Output	+V Output	11	NC	-V Output
12	-V Input	-V Input	12	NP	NP
13	-V Input	-V Input	13	NP	NP
14	+V Output	+V Output	14	+V Output	+V Output
15	-V Output	Common	15	NC	NC
16	NP	NP	16	-V Output	Common
22	NC	Common	22	+V Input	+V Input
23	NC	-V Output	23	+V Input	+V Input
24	+V Input	+V Input	24	NP	NP

\*NP-NO PIN  
\*NC-NO CONNECTION WITH PIN