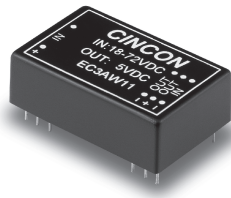


EC3AW

S E R I E S

3 WATT 4:1 INPUT RANGE DC-DC CONVERTERS



Features

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

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC3AW01	9-36VDC	5 VDC	600 mA	15 mA	174 mA	72	DIP-24
EC3AW02		12 VDC	250 mA	15 mA	165 mA	76	
EC3AW03		15 VDC	200 mA	15 mA	165 mA	76	
EC3AW04		±5 VDC	±300 mA	25 mA	179 mA	70	
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	18-72VDC	5 VDC	600 mA	7.5 mA	87 mA	72	DIP-24
EC3AW12		12 VDC	250 mA	7.5 mA	81 mA	77	
EC3AW13		15 VDC	200 mA	7.5 mA	81 mA	77	
EC3AW14		±5 VDC	±300 mA	12 mA	88 mA	71	
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

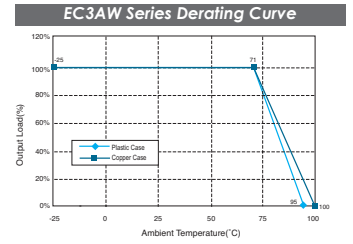
INPUT SPECIFICATIONS:
 Input Voltage Range.....24V.....9-36V
 Input Voltage Range.....48V.....18-72V
 Input Filter.....Pi Type

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, Single/Dual.....±0.5% max.
 Load Regulation, Single.....±0.5% max.
 Dual.....±1.0% max.

GENERAL SPECIFICATIONS:
 Efficiency.....See Table
 Isolation Resistance.....10⁹ Ohms
 Switching Frequency.....100kHz min.
 Operating Ambient Temperature Range.....-25°C to +71°C
 De-rating, Above 71°C (Plastic Case).....Linearly to Zero power at 95°C
 De-rating, Above 71°C, (Copper Case).....Linearly to Zero power at 100°C
 Case Temperature (Plastic case).....95°C max
 (Copper case).....100°C max
 Cooling.....Natural Convection
 Storage Temperature Range.....-40°C to +100°C
 Dimensions.....DIP.....1.25 x 0.80 x 0.40 inches (31.8 x 20.3 x 10.2mm)
 SMD.....1.25 x 0.80 x 0.45 inches (31.8 x 20.3 x 11.4mm)
 Weight.....12.5g

ISOLATION VOLTAGE:
 500 VDC min.....Standard Models
 3K VDC min.....Suffix "F" Models
 15k VDC min.....Suffix "HM" Models

CASE MATERIAL:
 Standard Models.....Non-Conductive Black Plastic
 Suffix "M" Models.....Black Coated Copper with Non-Conductive Base

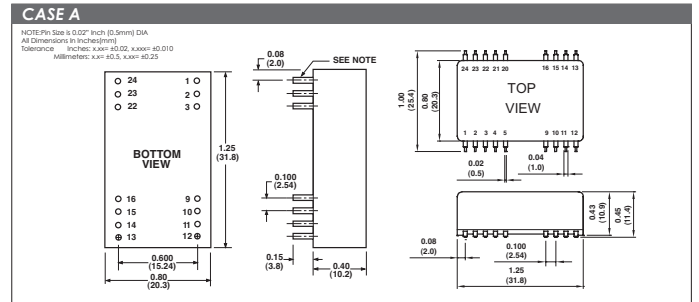


- NOTE:**
1. Measured From High Line to Low Line
 2. Measured From Full Load to 1/6 Load
 3. Measured From Full Load to 1/4 Load
 4. Non-Conductive Black Plastic Only
 5. Suffix "M" to the Model Number with SMD packages
 6. Maximum case temperature under any operating condition should not exceed 95°C (Plastic Case), 100°C (Copper Case).

PIN CONNECTION

Pin	500 VDC		1.5k & 3k VDC	
	Single Output	Dual Output	Single Output	Dual Output
1,24	+V Input	+V Input	1,24	NC
2,23	NC	-V Input	2,3	-V Input
3,22	NC	Common	4,5	NP
4	NP	NC	9	NC
5	NP	NC	10,15	NC
9	NP	NC	11	NC
10,15	-V Output	Common	12,13	NP
11,14	+V Output	+V Output	14	+V Output
12,13	-V Input	-V Input	16	-V Output
16	NP	NC	20,21	NP
20,21	NP	NC	22,23	+V Input

*NP=NO PIN
 *NC=NO CONNECTION WITH PIN



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