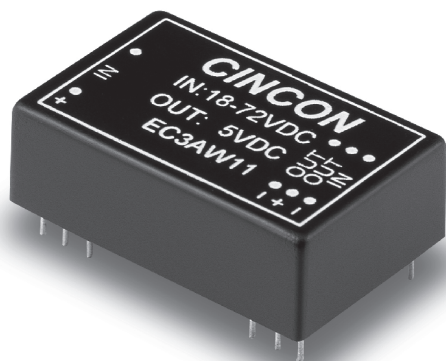


3 WATT 4:1 INPUT RANGE DC-DC CONVERTERS



Features:

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

Electrical Characteristics:

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF	SIZE
				NO LOAD	FULL LOAD		
EC3AW01	9-36 VDC	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	18-72 VDC	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 12, 24 or 48 VDC

Specification

INPUT SPECIFICATIONS:

Input Voltage Range.....	12V.....	9-18V
	24V.....	18-36V
	48V.....	36-72V
Input Filter.....	Pi Typ	

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/Dual1.....	± 0.5% max
Load Regulation, Single2.....	± 0.5% max
Dual3.....	± 1.0% max

GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Resistance.....	10.9ohms
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 case8)	95°C max
(Copper case8)	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

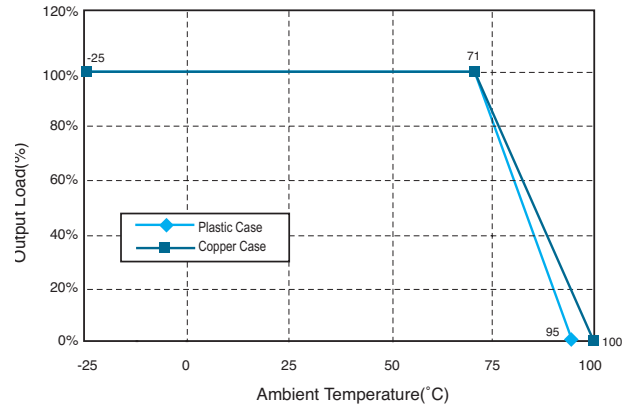
ISOLATION VOLTAGE:

500 VDC min.....	Standard Models
3K VDC min4.....	Suffix "H" Models
1.5K VDC min.....	Suffix "HM" Models

CASE MATERIAL:

Standard Models	Non-Conductive Black Plastic
Suffix "M" Models5.....	Black Coated Copper with Non-Conductive Base

EC3AW Series Derating Curve



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 "S" 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

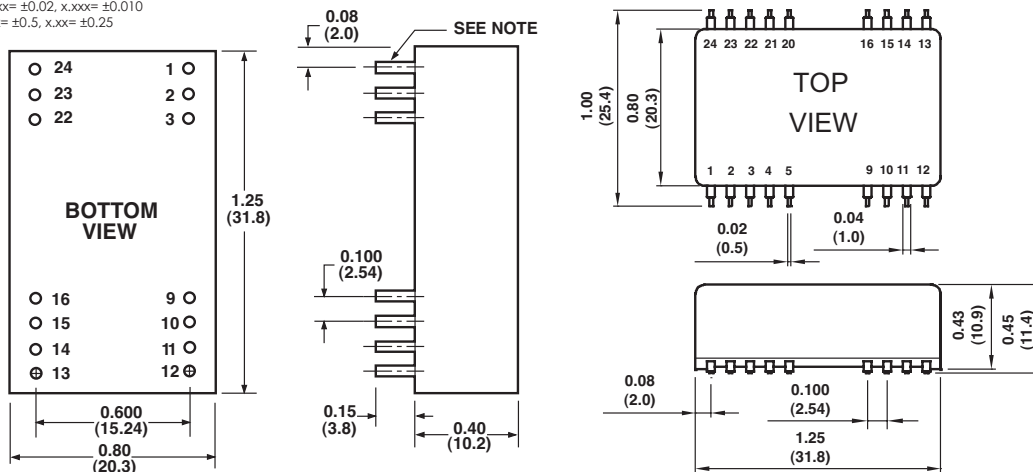
500 VDC					1.5K & 3K VDC				
Pin	Single Output		Dual Output		Pin	Single Output		Dual Output	
	DIP	SMD	DIP	SMD		DIP	SMD	DIP	SMD
1,24	+V Input		+V Input		1,24	NP	NC	NP	NC
2,23	NC		-V Output		2,3	-V Input		-V Input	
3,22	NC		Common		4,5	NP	NC	NP	NC
4	NP	NC	NP	NC	9	NC		Common	
5	NP	NC	NP	NC	10,15	NC		NC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

*NP-NO PIN

*NC-NO CONNECTION WITH PIN

CASE A

NOTE:Pin Size is 0.02" Inch (0.5mm) DIA
All Dimensions In Inches(mm)
Tolerance Inches: x.xx= ±0.02, x.xxx= ±0.010
Millimeters: x.x= ±0.5, x.xx= ±0.25



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

Data sheets are subject to change without notice