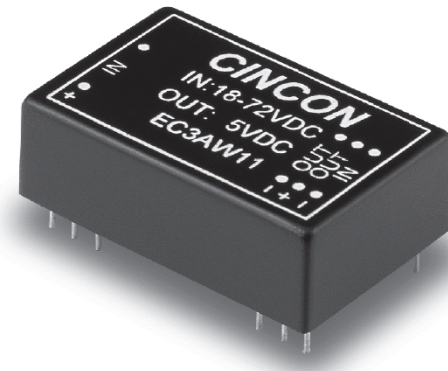


EC3AW

S E R I E S

3 WATT 4:1 INPUT RANGE DC-DC CONVERTERS



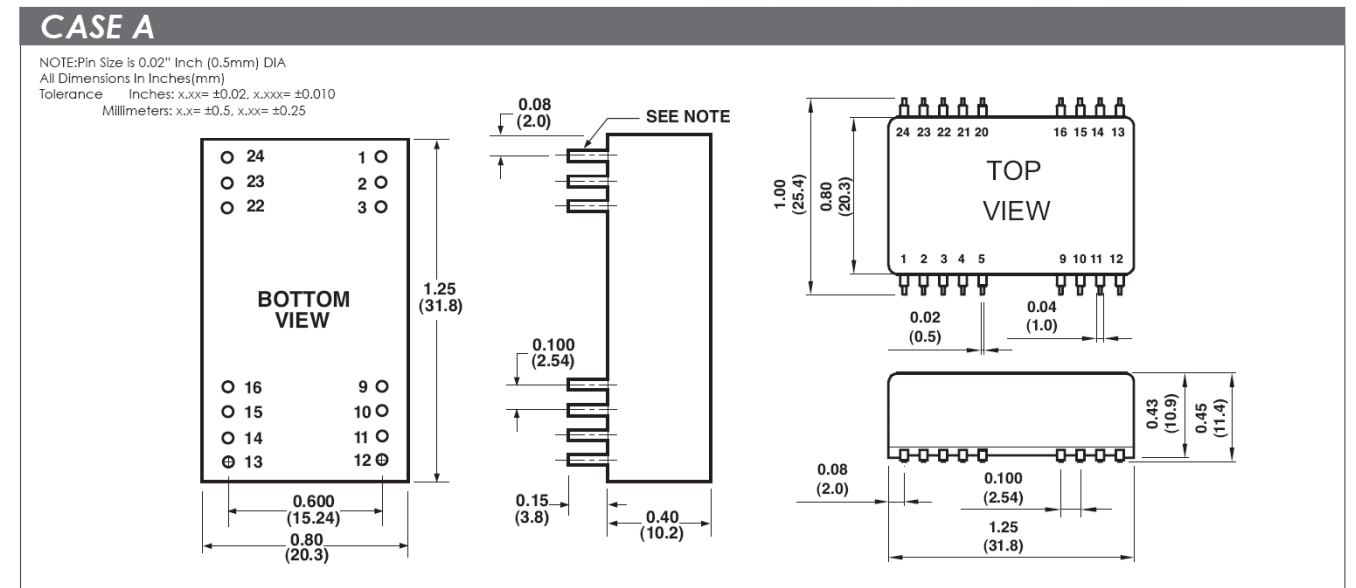
Features

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

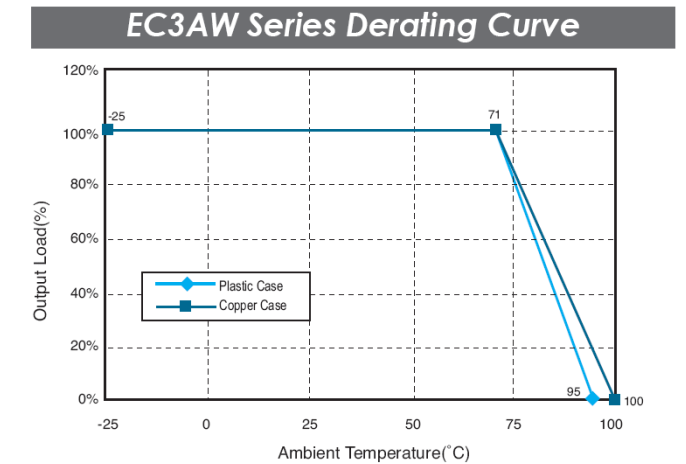
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC3AW01		5 VDC	600 mA	15 mA	174 mA	72	DIP-24
EC3AW02		12 VDC	250 mA	15 mA	165 mA	76	
EC3AW03		15 VDC	200 mA	15 mA	165 mA	76	
EC3AW04	9-36VDC	±5 VDC	±300 mA	25 mA	179 mA	70	
EC3AW05		±12 VDC	±125 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		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	18-72VDC	±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 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 ¹ , Single/Dual.....	±0.5% max.
Load Regulation, Single ²	±0.5% max.
Dual ³	±1.0% max.
GENERAL SPECIFICATIONS:	
Efficiency.....	See Table
Isolation Resistance.....	10 ⁹ 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 ⁴).....	95°C max
(Copper case ⁵).....	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 ⁶	Suffix "H" Models
15K VDC min.....	Suffix "HM" Models
CASE MATERIAL:	
Standard Models.....	Non-Conductive Black Plastic
Suffix "M" Models ⁵	Black Coated Copper with Non-Conductive Base



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



- 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

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

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