



EC4AW

S E R I E S

5-6 WATT 4:1 INPUT DC-DC CONVERTERS

Features

- 5-6 W Isolated Output
- 24-Pin DIP Package
- Efficiency to 80%
- 4:1 Input Range
- Regulated Outputs
- Pi Input Filter
- Continuous Short Circuit Protection

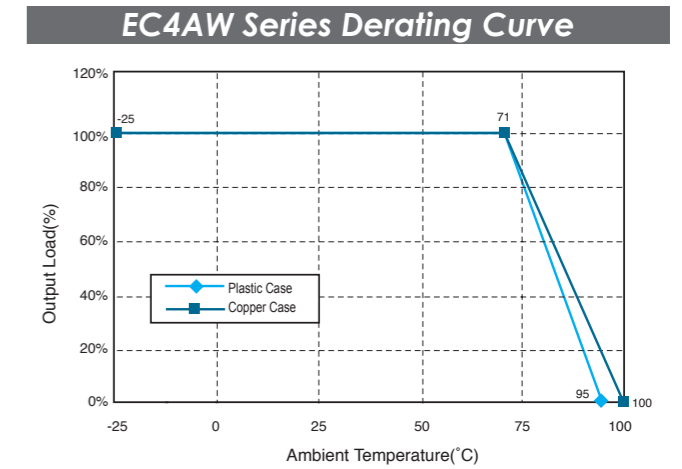


"Go to www.cincon.com for additional technical information"

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC4AW01	9-36VDC	5 VDC	1000 mA	15 mA	267 mA	78	A
EC4AW02		12 VDC	470 mA	15 mA	294 mA	80	
EC4AW03		15 VDC	400 mA	15 mA	313 mA	80	
EC4AW04		±12 VDC	±230 mA	25 mA	288 mA	80	
EC4AW05		±15 VDC	±190 mA	25 mA	297 mA	80	
EC4AW06		±5 VDC	±500 mA	25 mA	267 mA	78	
EC4AW07		3.3 VDC	1000 mA	15 mA	191 mA	72	
EC4AW11	18-72VDC	5 VDC	1000 mA	7.5 mA	134 mA	78	A
EC4AW12		12 VDC	470 mA	7.5 mA	149 mA	79	
EC4AW13		15 VDC	400 mA	7.5 mA	157 mA	80	
EC4AW14		±12 VDC	±230 mA	12 mA	146 mA	79	
EC4AW15		±15 VDC	±190 mA	12 mA	149 mA	80	
EC4AW16		±5 VDC	±500 mA	12 mA	135 mA	77	
EC4AW17		3.3 VDC	1000 mA	7.5 mA	100 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.....	3.3V/5V.....100mV p-p max. 12V/15V.....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.....	10 ⁹ Ohms
Switching Frequency.....	200KHz, 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.....	1.25 x 0.8 x 0.4 inches (31.8 x 20.3 x 10.2mm)
Weight.....	12.5g
ISOLATION VOLTAGE:	
1.5K VDC min.....	Standard Models
3K VDC min.....	Suffix "H" Models
CASE MATERIAL:	
Standard Models.....	Non-Conductive Black Plastic
Suffix "HM" Models.....	Black Coated Copper with Non-Conductive Base

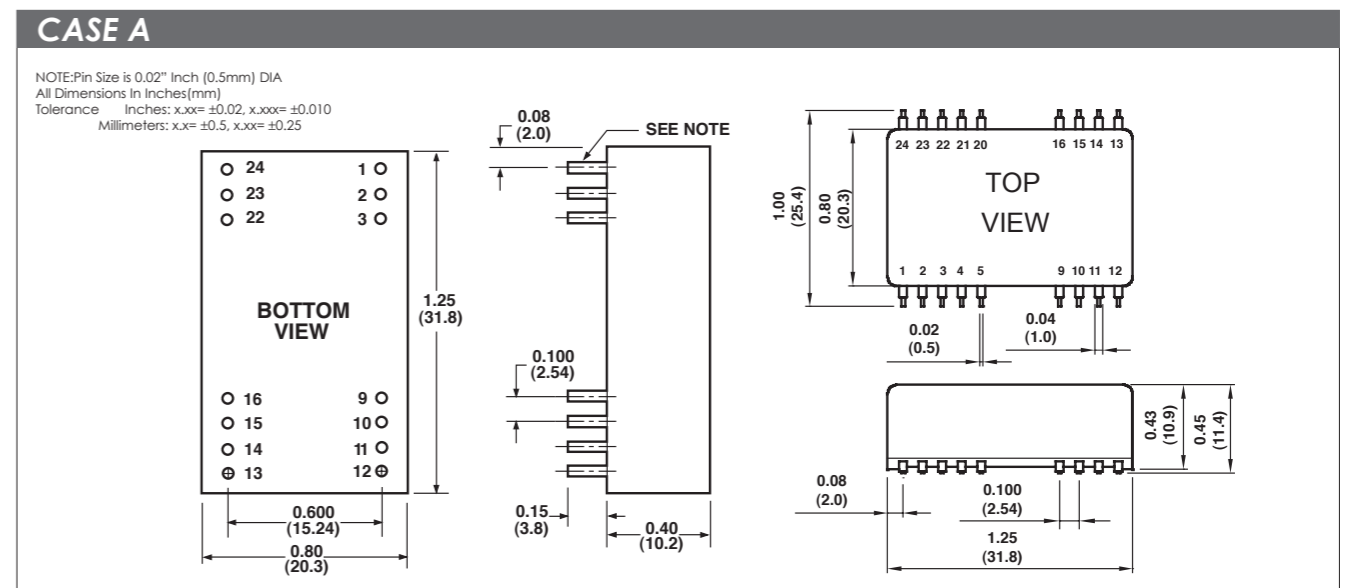


NOTE:

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" 1.5K VDC Instead of 3K VDC Isolation
6. Suffix "S" to the Model Number with SMD packages
7. Maximum case temperature under any operating condition should not be exceeded 95°C (Plastic Case), 100°C (Copper Case).

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

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



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