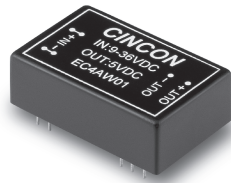


# EC4AW

S E R I E S

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



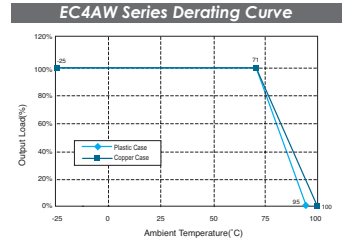
### Features

- 5-6W 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		
EC4AW01	9-36VDC	5 VDC	1000 mA	15 mA	267 mA	78	DIP-24
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	DIP-24
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	
<b>INPUT SPECIFICATIONS:</b>	
Input Voltage Range.....	24V.....9.36V
Input Voltage Range.....	48V.....18.72V
Input Filter.....	PI Type
<b>OUTPUT SPECIFICATIONS:</b>	
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.
<b>GENERAL SPECIFICATIONS:</b>	
Efficiency.....	See Table
Isolation Resistance.....	10 <sup>9</sup> Ohms
Switching Frequency.....	200kHz, min
Operating Ambient Temperature Range.....	-25°C to +71°C
Derating, Above 71°C (Plastic Case).....	Linearly to Zero power at 95°C
Derating, 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
<b>ISOLATION VOLTAGE:</b>	
1.5k VDC min.....	Standard or Suffix "HM,F" Models
3k VDC min.....	Suffix "H" Models
<b>CASE MATERIAL:</b>	
Standard Models.....	Non-Conductive Black Plastic
Suffix "HM" Models.....	Black Coated Copper with Non-Conductive Base

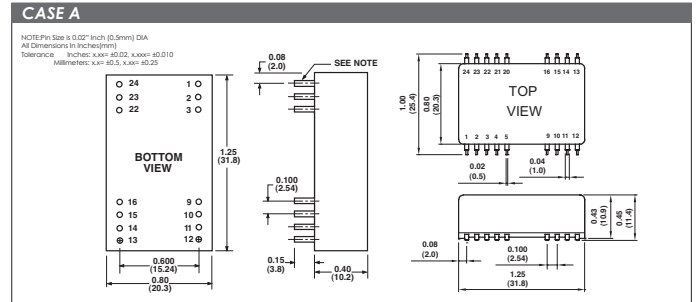


### NOTE:

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 "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	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.