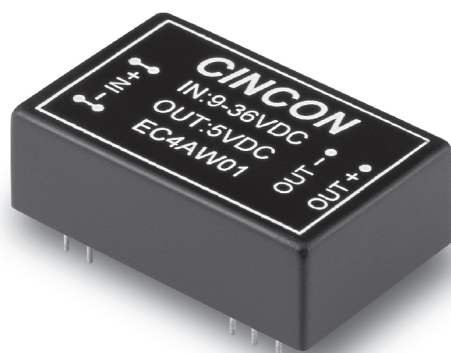


5-6 WATT 4:1 INPUT RANGE DC-DC CONVERTERS



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

Electrical Characteristics:

MODEL Number	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF.	Case
				NO LOAD	FULL LOAD		
EC4AW01	9-36 VDC	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	18-72 VDC	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

Specification

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 & Noise, 20MHz BW (Note 5)	3.3V/5V 100mV p-p, max
12V/15V	1% p-p max
Short Circuit Protection	Continuous
Line Regulation	Single/Dual (Note 1) ±0.5% max
Load Regulation	Single (Note 2) ±0.5% max
Dual (Note 3)	±1.0% max

GENERAL SPECIFICATIONS:

Efficiency	See Table
Isolation Resistance	10 ⁹ ohm min
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 (Note 4)	Plastic/Copper case... 95°C/100°C max
Cooling	Natural Convection
Storage Temperature Range	-40°C to +100°C
EMI / RFI.....	Conductive EMI Meet EN55022 Class B
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

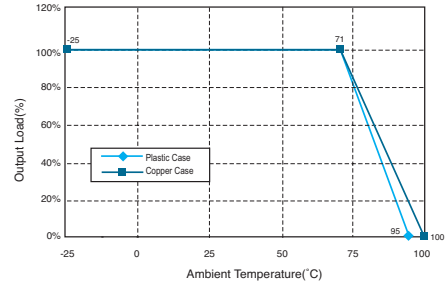
ISOLATION VOLTAGE:

3K VDC min.....	Suffix "H" Models
1.5 K VDC min.....	Suffix "HM" Models

CASE MATERIAL:

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

EC4AW 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(PlasticCase), 100°C(Copper Case).

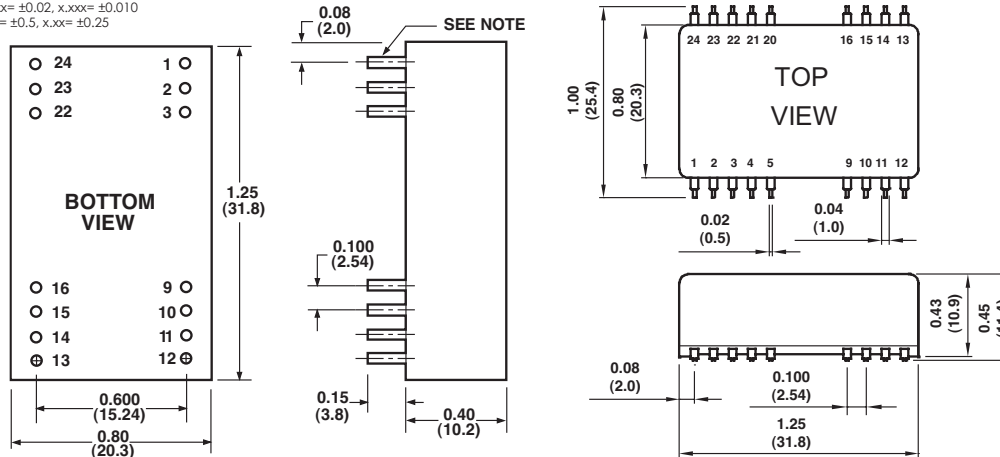
PIN CONNECTION

Pin	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

Case A Dimensions

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