

EC6A

7.5 WATT WIDE INPUT DC-DC CONVERTERS

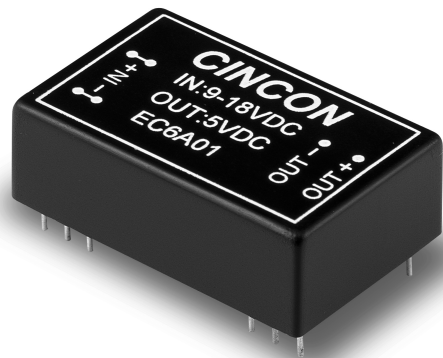


Features

- 7.5W Isolated Output
- Efficiency to 83%
- Regulated Outputs
- Continuous Short Circuit Protection
- 24-Pin DIP Package
- 2 : 1 Input Range
- Pi Input Filter

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	% EFF.	CASE
EC6A01	9-18 VDC	5 VDC	1500 mA	25 mA	801 mA	78	A
EC6A02		12 VDC	625 mA	25 mA	762 mA	82	
EC6A03		15 VDC	500 mA	25 mA	762 mA	82	
EC6A04		±5 VDC	±750 mA	30 mA	791 mA	79	
EC6A05		±12 VDC	±310 mA	30 mA	753 mA	83	
EC6A06		±15 VDC	±250 mA	30 mA	753 mA	83	
EC6A07		3.3VDC	1500 mA	25 mA	557 mA	74	
EC6A11	18-36 VDC	5 VDC	1500 mA	20 mA	396 mA	79	A
EC6A12		12 VDC	625 mA	20 mA	381 mA	82	
EC6A13		15 VDC	500 mA	20 mA	381 mA	82	
EC6A14		±5 VDC	±750 mA	25 mA	386 mA	81	
EC6A15		±12 VDC	±310 mA	25 mA	377 mA	83	
EC6A16		±15 VDC	±250 mA	25 mA	377 mA	83	
EC6A17		3.3VDC	1500 mA	20 mA	271 mA	76	
EC6A21	36-72 VDC	5 VDC	1500 mA	10 mA	195 mA	80	A
EC6A22		12 VDC	625 mA	10 mA	190 mA	82	
EC6A23		15 VDC	500 mA	10 mA	190 mA	82	
EC6A24		±5 VDC	±750 mA	15 mA	193 mA	81	
EC6A25		±12 VDC	±310 mA	15 mA	188 mA	83	
EC6A26		±15 VDC	± 250 mA	15 mA	188 mA	83	
EC6A27		3.3VDC	1500 mA	10 mA	136 mA	76	

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC



Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	12V.....	9-18V
	24V.....	18-36V
	48V.....	36-72V
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,	100mV p-p max.
Short Circuit Protection.....	Continuous
Line Regulation ¹ Single/Dual	±0.2% max.
Load Regulation Single ²	±0.5% max.
Dual ³	±1.0% max.

GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage.....	1500VDC min.
Isolation Resistance.....	10 ⁹ ohms
Switching Frequency.....	300KHz, typ.
Operating Temperature Range.....	-25°C to + 71°C
Case Temperature.....	100°C max.
Cooling.....	Free-Air 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 10.2 mm)
Weight.....	18.4g

CASE MATERIAL:

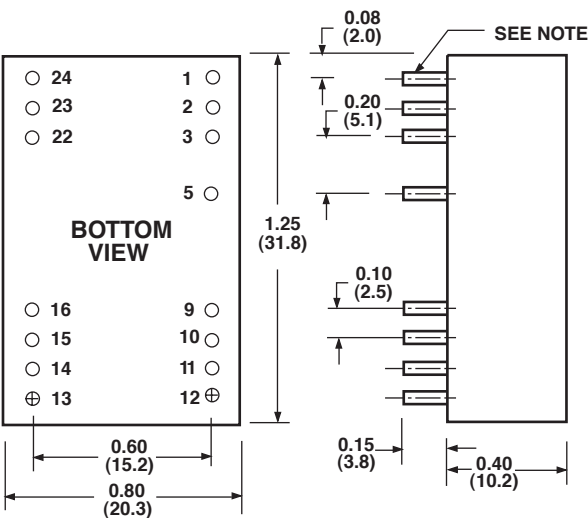
Case Material.....	Black Coated Copper with Non-Conductive Base
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NOTE:

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

CASE A

NOTE: Pin Size is 0.020" Inch (0.5mm) DIA
All Dimensions in Inches(mm)
Tolerance .xx= ±.02, .xxx= ±.010



PIN CONNECTION		
1500 VDC		
Pin	Single Output	Dual Output
1	NP	NP
2	-V Input	-V Input
3	-V Input	-V Input
5	NP	NP
9	NC	Common
10	NC	NC
11	NC	-V Output
12	NP	NP
13	NP	NP
14	+V Output	+V Output
15	NC	NC
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input
24	NP	NP

*NP-NO PIN

*NC-NO CONNECTION WITH PIN