

EC6A

7.5 WATT WIDE INPUT DC-DC CONVERTERS



Feature

- 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		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC 6A01		5 VDC	1500 mA	25 mA	801 mA	78	
EC 6A02		12 VDC	625 mA	25 mA	762 mA	82	
EC 6A03	9-18 VDC	15 VDC	500 mA	25 mA	762 mA	82	A
EC 6A04		±5 VDC	±750 mA	30 mA	791 mA	79	
EC 6A05		±12 VDC	±310 mA	30 mA	753 mA	83	
EC 6A06		±15 VDC	±250 mA	30 mA	753 mA	83	
EC 6A07		3.3 VDC	1500 mA	25 mA	557 mA	74	
EC 6A11		5 VDC	1500 mA	20 mA	396 mA	79	
EC 6A12		12 VDC	625 mA	20 mA	381 mA	82	
EC 6A13	18-36 VDC	15 VDC	500 mA	20 mA	381 mA	82	A
EC 6A14		±5 VDC	±750 mA	25 mA	386 mA	81	
EC 6A15		±12 VDC	±310 mA	25 mA	377 mA	83	
EC 6A16		±15 VDC	±250 mA	25 mA	377 mA	83	
EC 6A21		5 VDC	1500 mA	10 mA	195 mA	80	
EC 6A22		12 VDC	625 mA	10 mA	190 mA	82	
EC 6A23	36-72 VDC	15 VDC	500 mA	10 mA	190 mA	82	A
EC 6A24		±5 VDC	±750 mA	15 mA	193 mA	81	
EC 6A25		±12 VDC	±310 mA	15 mA	188 mA	83	
EC 6A26		±15 VDC	±250 mA	15 mA	188 mA	83	

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,	3.3V/5V.....	75mV p-p max.
	12V/15V.....	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.....		1500VDCmin.
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 m/m)

CASE MATERIAL:

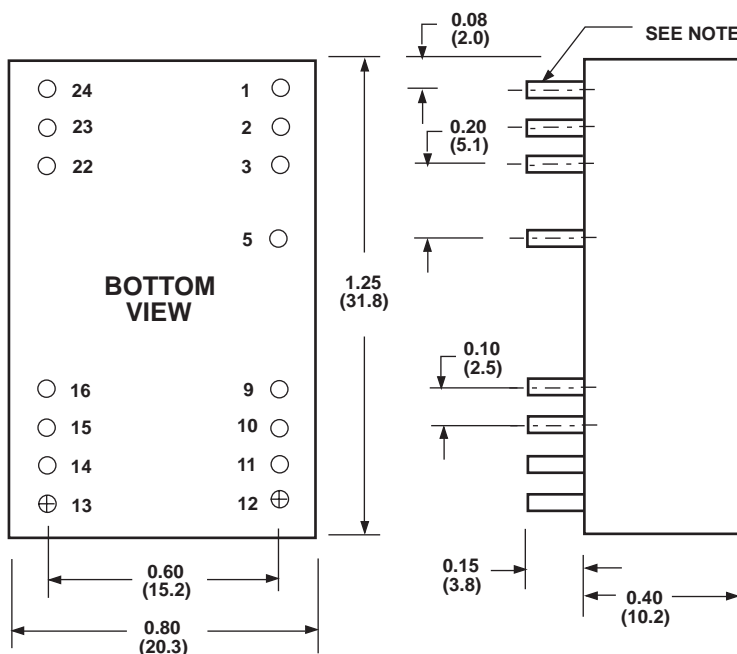
Case Material.....Black Coated Copper with
Non-Conductive Base

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

CASE A

NOTE: Pin Size is 0.020" Inch (0.5m/m) DIA or .020 x .014 Inch
All Dimensions In Inches(mm)



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 loutput	+V loutput
23	+V Input	+V Input
24	NP	NP

*NP-NO PIN

*NC-NO CONNECTION WITH PIN