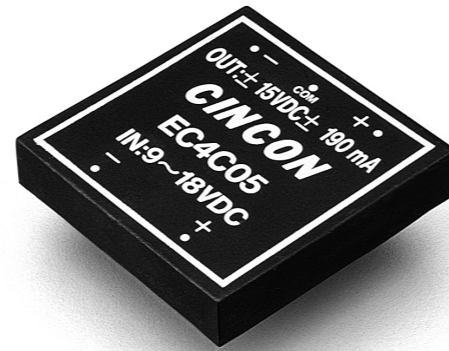


EC4C

5-6 WATT WIDE INPUT DC-DC CONVERTERS



Features

- 5-6W Isolated Output
- 2:1 Input Range
- Efficiency to 79%
- 200 KHz Switching Frequency

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
EC4C01		5 VDC	1000 mA	20 mA	570 mA	73	
EC4C02		12 VDC	470 mA	30 mA	626 mA	75	
EC4C03	9-18 VDC	15 VDC	400 mA	30 mA	667 mA	75	C/S
EC4C04		±12 VDC	±230 mA	35 mA	630 mA	73	
EC4C05		±15 VDC	±190 mA	35 mA	650 mA	73	
EC4C11		5 VDC	1000 mA	15 mA	278 mA	75	
EC4C12		12 VDC	470 mA	20 mA	305 mA	77	
EC4C13	18-36 VDC	15 VDC	400 mA	20 mA	325 mA	77	C/S
EC4C14		±12 VDC	±230 mA	25 mA	307 mA	75	
EC4C15		±15 VDC	±190 mA	25 mA	317 mA	75	
EC4C21		5 VDC	1000 mA	10 mA	135 mA	77	
EC4C22		12 VDC	470 mA	15 mA	149 mA	79	
EC4C23	36-72 VDC	15 VDC	400 mA	15 mA	158 mA	79	C/S
EC4C24		±12 VDC	±230 mA	20 mA	149 mA	77	
EC4C25		±15 VDC	±190 mA	20 mA	154 mA	77	

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC
2. Alternative pin-out version. To order, suffix a "S" to the standard model number.

Specifications

INPUT SPECIFICATIONS:

Input Voltage Range.....	12V	9-18V
	24V	18-36V
	48V	36-72V
Input Filter.....	Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy		
Single Output.....		±1.0% max.
Dual + Output.....		±1.0% max.
Dual - Output.....		±3.0% max.
Voltage Balance Dual Output at Full Load.....		±1.0% max.
Transient Response		
Single 25% Step Load Change.....		<500µ sec.
Dual FL-1/2L ±1% Error Band.....		<500µ sec.
Ripple & Noise, 20MHz BW.....		10mV RMS, max. 75mV p-p max.
Temperature Coefficient.....		±0.02%/°C
Short Circuit Protection.....		Indefinite & Current Limit
Line Regulation ¹ Single/Dual Output.....		±0.2% max.
Load Regulation ² Single/Dual Output.....		±1.0% max.

GENERAL SPECIFICATIONS:

Efficiency.....		See Table
Isolation Voltage.....		500 VDC min.
Isolation Resistance.....		10 ⁹ ohms.
Switching Frequency.....		200KHz, typ.
Operating Temperature Range.....		-25°C to + 71°C
Case Temperature (Plastic case).....		95°C max.
(Copper case).....		100°C max.
Cooling.....		Free-Air Convection
Storage Temperature Range.....		-40°C to + 100°C
Dimensions.....		2 x 2 x 0.4 inches (50.8 x 50.8 x 10.2mm)
Weight.....	51g

CASE MATERIAL:

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

NOTE:

1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 Load
3. Determine the Correct Fuse Size by Calculating the Maximum DC Current Drain at Low Line Input, Maximum Load and Then Adding 20 to 25% to Get Desired Fuse Size.
4. Alternative Pin Configuration Suffix "S"

CASE C

All Dimensions In Inches(mm)
Tolerance .xx= ±.04, .xxx= ±.010

