E C 3 C
S E R I E S

15 WATT
DC-DC CONVERTERS

RoHS

OUT:5VDC3000mA
CINCON
EC3C11
IN:18~36VDC
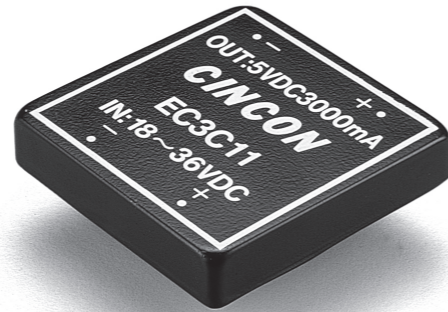
Features

- 15W Isolated Output
- 2" x 2" Six-Sided Shield Metal Case
- Regulated Outputs
- Efficiency to 82%
- Fixed 200KHz Switching Frequency
- Alternative Pin Configuration

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	SIZE
				NO LOAD	FULL LOAD		
EC3C01		5 VDC	3000 mA	30 mA	1660 mA	75	
EC3C02		12 VDC	1250 mA	30 mA	1625 mA	78	
EC3C03		15 VDC	1000 mA	30 mA	1625 mA	78	
EC3C04	9-18 VDC	±12 VDC	±625 mA	35 mA	1620 mA	77	2" x 2"
EC3C05		±15 VDC	±500 mA	35 mA	1620 mA	77	
EC3C06		±5 VDC	±1500 mA	35 mA	1620 mA	77	
EC3C07		3.3 VDC	3000 mA	30 mA	1178 mA	70	
EC3C11		5 VDC	3000 mA	15 mA	812 mA	78	
EC3C12		12 VDC	1250 mA	20 mA	772 mA	81	
EC3C13		15 VDC	1000 mA	20 mA	772 mA	81	
EC3C14	18-36 VDC	±12 VDC	±625 mA	25 mA	780 mA	80	2" x 2"
EC3C15		±15 VDC	±500 mA	25 mA	780 mA	80	
EC3C16		±5 VDC	±1500 mA	25 mA	780 mA	80	
EC3C17		3.3 VDC	3000 mA	15 mA	557 mA	74	
EC3C21		5 VDC	3000 mA	10 mA	390 mA	80	
EC3C22		12 VDC	1250 mA	15 mA	381 mA	82	
EC3C23		15 VDC	1000 mA	15 mA	381 mA	82	
EC3C24	36-72 VDC	±12 VDC	±625 mA	20 mA	386 mA	81	2" x 2"
EC3C25		±15 VDC	±500 mA	20 mA	386 mA	81	
EC3C26		±5 VDC	±1500 mA	20 mA	386 mA	81	
EC3C27		3.3 VDC	3000 mA	20 mA	271 mA	76	

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..10⁹ohms
Switching Frequency.................................200KHz, typ.
Operating Ambient Temperature Range .... -25°C to +71°C
De-rating, Above 71°C .... Linearly to Zero power at 100°C
Case Temperature[5]...100°C max
Cooling ....Natural Convection
Storage Temperature Range..........................-40°C to + 100°C
EMI/RFI..Six-Sided Continuous Shield
Dimensions..2.00 x 2.00 x 0.40 inches
    (50.8 x 50.8 x 10.2mm)
Case Material.......................................Black Coated Copper With
    Non-Conductive Base
Weight.. 57g

EC3C Series Derating Curve
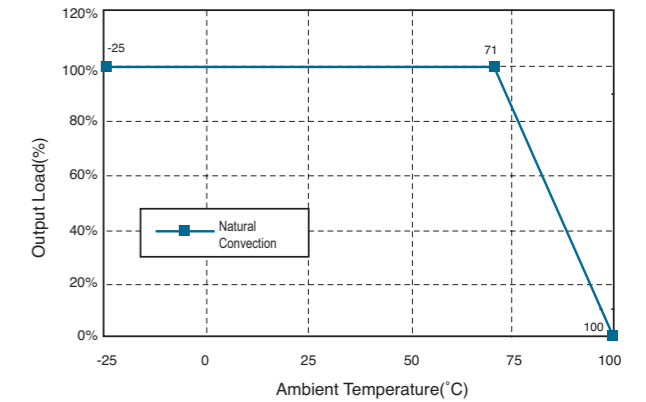
NOTE:
1. Measured From High Line to Low Line
2. Measured From Full Load to 1/4 Full Load
3. Determine the Correct Fuse Size by Calculating the Maximum DC Current Drain at Low Line Input, Maximum Load and Then Adding 20 to 25% to Get Desired Fuse Size.
4. Alternative Pin Configuration Suffix "S"
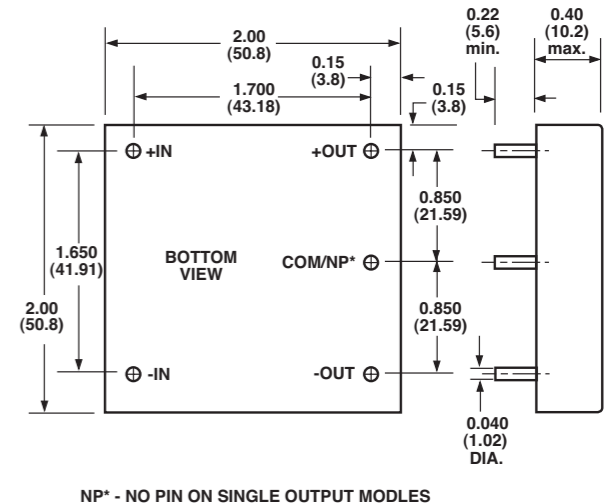5. Maximum case temperature under any operating condition should not exceed 100°C.

CASE C

All Dimensions In Inches(mm)
Tolerance   Inches: .xx= ±.04, .xxx= ±.010
        Millimeters: .x= ±1.0, .xx= ±0.25

STANDARD PIN CONFIGURATION
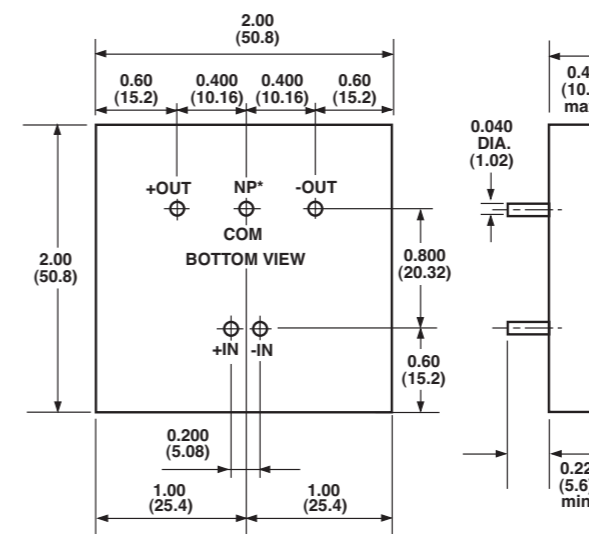
ALTERNATE PIN CONFIGURATION SUFFIX "S"

NP* - NO PIN ON SINGLE OUTPUT MODLES

All Specifications Typical At Nominal Line, Full Load and 25°C Unless Otherwise Noted.

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