

EC5C

15 WATT WIDE INPUT DC-DC CONVERTERS



Features

- + 15W Isolated Output
- + 4:1 Input Range
- + Six-Sided Shield
- + Remote ON/OFF Control
- + Efficiency to 82%

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT @ LOAD IN FULL LOAD	EFF.	%SE	
EC5C01		5 VDC	3000 mA	15 mA	810 mA	77	
EC5C02		12 VDC	1250 mA	15 mA	780 mA	80	
EC5C03		15 VDC	1000 mA	15 mA	780 mA	80	
EC5C04		±5 VDC	±1500 mA	20 mA	810 mA	77	
EC5C05	9-36 VDC	±12 VDC	±625 mA	20 mA	780 mA	80	C
EC5C06		±15 VDC	±500 mA	20 mA	780 mA	80	
EC5C07		5±12 VDC	1500±310 mA	20 mA	780 mA	80	
EC5C08		5±15 VDC	1500±250 mA	20 mA	780 mA	80	
EC5C09		3.3 VDC	3000 mA	15 mA	545 mA	76	
EC5C11		5 VDC	3000 mA	10 mA	410 mA	77	
EC5C12		12 VDC	1250 mA	10 mA	390 mA	80	
EC5C13		15 VDC	1000 mA	10 mA	390 mA	80	
EC5C14		±5 VDC	±1500 mA	15 mA	400 mA	79	
EC5C15	18-72 VDC	±12 VDC	±625 mA	15 mA	380 mA	82	C
EC5C16		±15 VDC	±500 mA	15 mA	380 mA	82	
EC5C17		5±12 VDC	1500±310 mA	15 mA	380 mA	82	
EC5C18		5±15 VDC	1500±250 mA	15 mA	380 mA	82	
EC5C19		3.3 VDC	3000 mA	10 mA	270 mA	76	

NOTE 1: Nominal Input Voltage: 24 or 48 VDC



Specifications

INPUT SPECIFICATIONS:

Input Voltage Range:	24V.....9.36V
	48V.....18.72V
Input Filter:	.....Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy	.....±1.0% max.
Single Output:	.....±1.0% max.
Dual +Output:	.....±3.0% max.
-Output:	.....±2.0% max.
Triple 5V:	.....±3.0% max.
12V/15V:	.....±1.0% max.
Voltage Balance (Dual):	.....±1.0% max.
Transient Response:	
Single 25% Step Load Change:	.....<500µ sec.
Dual FL 1/2L ±1% Error Band:	.....<500µ sec.
External Trim Adj. Range:	.....±10%
Ripple & Noise 20MHz BW:	.....10mV RMS max.
	.....75mV p-p max.
Temperature Coefficient:	.....±0.02%/°C
Short Circuit Protection:	.....Continuous
Line Regulation? Single/Dual:	.....±0.2% max.
Triple:	.....±1.0% max.
Load Regulation? Single/Dual:	.....±1.0% max.
Triple:	.....±5.0% max.

GENERAL SPECIFICATIONS:

Efficiency:	.....See Table
Isolation Voltage:	.....500 VDC min.
Isolation Resistance:	.....10 ¹⁰ ohm
Switching Frequency:	.....300KHz typ.
Case Grounding:	.....Connected to Output Common
Operating Temperature Range:	.....25°C to +71°C
Case Temperature:	.....100°C max.
Cooling:	.....Free Air Convection
Storage Temperature Range:	.....-55°C to +105°C
EMC/RFI:	.....Six-Sided Continuous Shield
Dimensions:	.....2 x 2 x 0.4 inches
	.....(50.8 x 50.8 x 10.2 mm)
Case Material:	.....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.

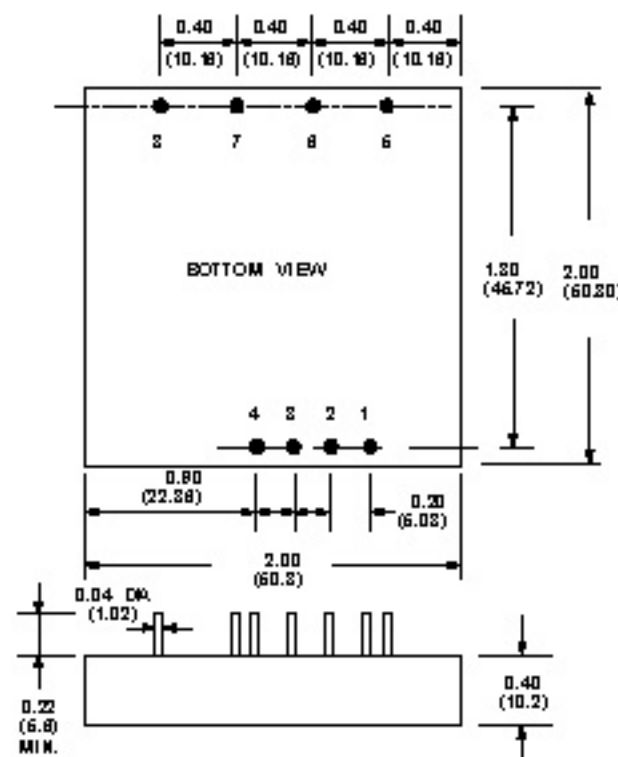
Output (Pin No.)	Voltage	Amperes	
		Min. (2)	Nom.
7	+5	0.25	1.5
8 & 5	+12 & -12	0.10	0.31
8 & 5	+15 & -15	0.10	0.25

NOTE:

1. Maximum total power from all outputs is limited to 16 watts but no output should be allowed to exceed its maximum current.
2. Minimum current on each output is required to maintain specified regulation.

CASE C

All Dimensions in Inches (mm)
Tolerance .01" (.254)



Pin	Single	Dual	Triple
1.	Remote On/Off Control		
2.	No Pin	No Pin	No Pin
3.	-Vin	-Vin	-Vin
4.	+Vin	+Vin	+Vin
5.	Trim	Trim	Jux. Out
6.	-Vout	-Vout	Common
7.	+Vout	Common	+5V out
8.	No Pin	+Vout	+Jux. Out

Remote On/Off Control	
Logic Compatibility	CMOS or Open Collector TTL
EC On	+5.5VDC or Open Circuit
EC Off	-1.8 VDC
Shutdown/Current Control Common	10 mA Referenced to Input Minus

