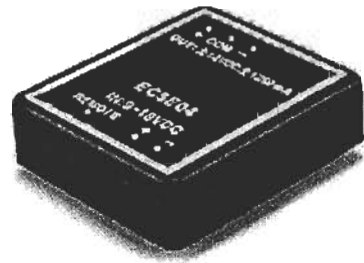


Contact: B. J. Wolfe Enterprises, Inc
 Phone: (800) 554-1224, Fax: (818) 889-8417

ECSE

25 TO 30 WATT WIDE INPUT DC-DC CONVERTERS



Features

- 30W Isolated Output
- 2:1 Input Range
- Six-Sided Shield
- Remote ON/OFF Control
- Efficiency to 84%
- 200KHz Switching Frequency

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		EFF	CASE
				NOLOAD	FULL LOAD		
ECSE01	9-18 VDC	5 VDC	5000 mA	30 mA	2700 mA	77	E
ECSE02		12 VDC	2500 mA	30 mA	3150 mA	79	
ECSE03		15 VDC	2000 mA	30 mA	3150 mA	79	
ECSE04		±12 VDC	±1250 mA	35 mA	3100 mA	81	
ECSE05		±15 VDC	±1000 mA	35 mA	3100 mA	81	
ECSE06		5/±12 VDC	3000/±625 mA	35 mA	3200 mA	78	
ECSE07		5/±15 VDC	3000/±500 mA	35 mA	3200 mA	78	
ECSE08		+5/±12/-5 VDC	3000/600/1000 mA	35 mA	2940 mA	77	
ECSE11	18-36 VDC	5 VDC	5000 mA	30 mA	1350 mA	77	E
ECSE12		12 VDC	2500 mA	30 mA	1550 mA	81	
ECSE13		15 VDC	2000 mA	30 mA	1550 mA	81	
ECSE14		±12 VDC	±1250 mA	30 mA	1500 mA	84	
ECSE15		±15 VDC	±1000 mA	30 mA	1500 mA	84	
ECSE16		5/±12 VDC	3000/±625 mA	30 mA	1580 mA	79	
ECSE17		5/±15 VDC	3000/±500 mA	30 mA	1560 mA	80	
ECSE18		+5/±12/-5 VDC	3000/600/1000 mA	30 mA	1450 mA	78	
ECSE21	36-72 VDC	5 VDC	5000 mA	15 mA	670 mA	78	E
ECSE22		12 VDC	2500 mA	15 mA	770 mA	81	
ECSE23		15 VDC	2000 mA	15 mA	770 mA	81	
ECSE24		±12 VDC	±1250 mA	20 mA	750 mA	84	
ECSE25		±15 VDC	±1000 mA	20 mA	750 mA	84	
ECSE26		5/±12 VDC	3000/±625 mA	20 mA	790 mA	79	
ECSE27		5/±15 VDC	3000/±500 mA	20 mA	780 mA	80	
ECSE28		+5/±12/-5 VDC	3000/600/1000 mA	20 mA	725 mA	78	

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		±1.0% max.
Single Output		±1.0% max.
Dual +Output		±3.0% max.
-Output		±1.0% max.
Triple, 5V		±5.0% max.
12V/15V		±5.0% max.
5V		±2.0% 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 ohms
Switching Frequency	200KHz, typ.
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
EMV/RFI	3x-Sided Continuous Shield
Dimensions	2.56 x 3.0 x 0.83 inches (65 x 76.2 x 21.1 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

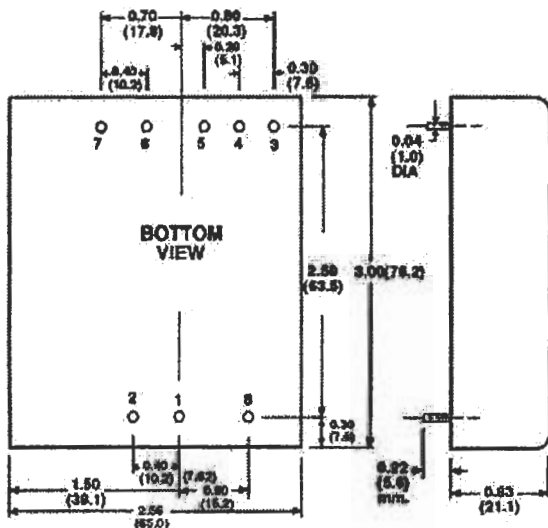
Output (Pin No.)	Voltage	Ampere	
		Min.(2)	Nom.
6	+5	0.5	3.0
3 & 5	+12 & -12	0.10	0.625
3 & 5	+15 & -15	0.10	0.500
3 & 5	+12 & -5	0.10/0.10	0.60/1.0

NOTE:

1. Maximum total power from all outputs is limited to 3W with but no output should be allowed to exceed its maximum current.
2. Minimum current on each output is required to maintain specified regulation.

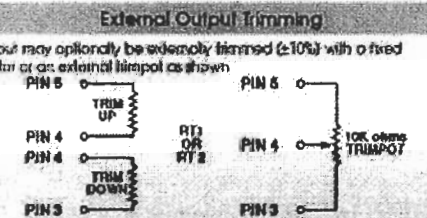
CASE E

All Dimensions in inches (mm)
Tolerance .05 ± 0.01, .002 ± 0.010



Pin	Single Output	Dual Output	Triple Output
1	+Input	+Input	+Input
2	-Input	-Input	-Input
3	+Sense	+Output	+Output
4	Output Trim	Common	Common
5	-Sense	-Output	-Output
6	+Output	No Pin	+5V Output
7	-Output	No Pin	-5V Output
8	Remote On/Off Control		

Single Compatibility	CMOS or Open Collector TTL
EC-On	>+5.5VDC or Open Circuit
EC-Off	<1.8 VDC
Shutdownable Current	10 mA
Control Common	Referenced to Input Minus



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

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