

6C

25 TO 30 WATT WIDE INPUT DC-DC CONVERTERS

Features:

- 25Watt Isolated Output
- 2:1 Input Range
- Six-Sided Shield
- Remote ON/OFF Control
- Efficiency to 85%

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF.	CASE
				NO LOAD	FULL LOAD		
6C01	9-18 VDC	5 VDC	5000 mA	30 mA	2675 mA	78	C
6C02		12 VDC	2500 mA	30 mA	3050 mA	82	
6C03		15 VDC	2000 mA	30 mA	3050 mA	82	
6C04		±5 VDC	±2500 mA	35 mA	2675 mA	78	
6C05		±12 VDC	±1250 mA	35 mA	3050 mA	82	
6C06		±15 VDC	±1000 mA	35 mA	3050 mA	82	
6C07		5/±12 VDC	3500/±310 mA	35 mA	2640 mA	79	
6C08		5/±15 VDC	3500/±250 mA	35 mA	2640 mA	79	
6C09		3.3 VDC	5000 mA	30 mA	1860 mA	74	
6C11	18-36 VDC	5 VDC	5000 mA	30 mA	1336 mA	79	C
6C12		12 VDC	2500 mA	30 mA	1525 mA	82	
6C13		15 VDC	2000 mA	30 mA	1525 mA	82	
6C14		±5 VDC	±2500 mA	30 mA	1336 mA	79	
6C15		±12 VDC	±1250 mA	30 mA	1470 mA	85	
6C16		±15 VDC	±1000 mA	30 mA	1470 mA	85	
6C17		5/±12 VDC	3500/±310 mA	30 mA	1320 mA	80	
6C18		5/±15 VDC	3500/±250 mA	30 mA	1320 mA	80	
6C19		3.3 VDC	5000 mA	30 mA	920 mA	75	
6C21	36-72 VDC	5 VDC	5000 mA	20 mA	660 mA	79	C
6C22		12 VDC	2500 mA	20 mA	765 mA	82	
6C23		15 VDC	2000 mA	20 mA	765 mA	82	
6C24		±5 VDC	±2500 mA	25 mA	660 mA	79	
6C25		±12 VDC	±1250 mA	25 mA	735 mA	85	
6C26		±15 VDC	±1000 mA	25 mA	735 mA	85	
6C27		5/±12 VDC	3500/±310 mA	25 mA	655 mA	80	
6C28		5/±15 VDC	3500/±250 mA	25 mA	655 mA	80	
6C29		3.3 VDC	5000 mA	20 mA	460 mA	75	

NOTE: 1. Nominal Input Voltage 12, 24 or 48 VDC



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INPUT SPECIFICATIONS:

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

OUTPUT SPECIFICATIONS:

Voltage Accuracy	
Single Output.....	±2.0% max.
Dual +Output.....	±2.0% max.
-Output.....	±3.0% max.
Triple, 5V.....	±2.0% max.
12V/15V.....	±5.0% max.
Voltage Balance (Dual).....	±1.0% max.
Transient Response:	
Single, 25% Step Load Change.....	<500µ s.
Dual, FL-1/2L±1% Error Band.....	<500µ s.
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 ¹ , Single/Dual.....	±0.5% max.
Triple.....	±1.0% max.
Load Regulation ² , Single/Dual.....	±1.0% max.
Triple.....	±5.0% max.

NOTE:

1. Measured from high line to low line.
2. Measured from full load to 1/4 load.

GENERAL SPECIFICATIONS:

Efficiency.....	See Table
Isolation Voltage.....	500 VDC min
Isolation Resistance.....	10 ⁹ ohms
Switching Frequency.....	300kHz, min
Case Grounding.....	Capacity Coupled to Input
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
EMI/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

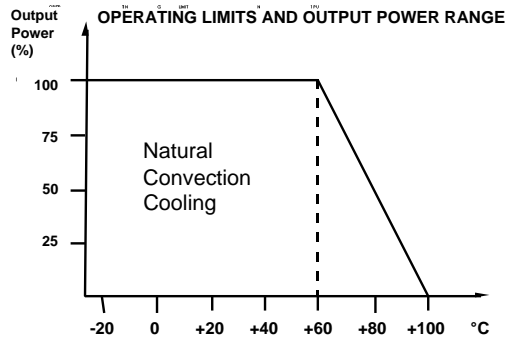
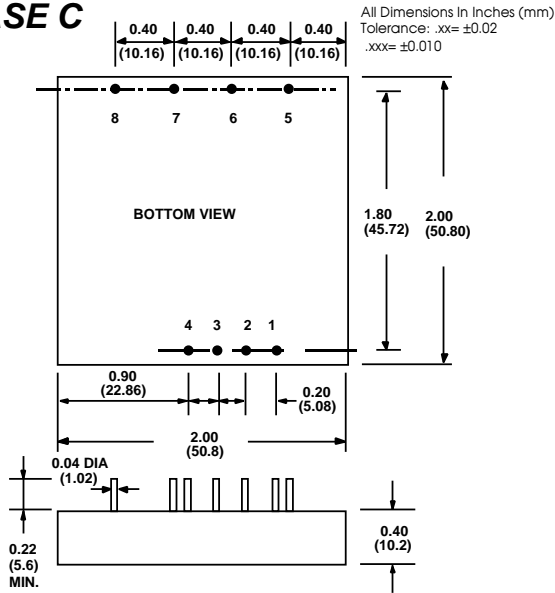
TRIPLE OUTPUT LOADING TABLE

Output (Pin No.)	Voltage	Amperes	
		Min.(2)	Nom.
7	+5	0.50	3.5
8 & 5	+12 or -12	0.10	0.31
8 & 5	+15 or -15	0.10	0.25

NOTE:

1. Maximum total power from all outputs is limited to 25 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

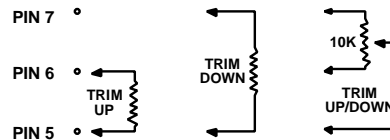


PIN CONNECTION

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	-Aux. Out
6.	-Vout	-Vout	Common
7.	+Vout	Common	+5V out
8.	No Pin	+Vout	+Aux. Out

External Output Trimming

Output may optionally be externally trimmed (±10%) with a fixed resistor or an external trimpot as shown.



Logic Compatibility	CMOS or Open Collector TTL
EC-On	>+5.5VDC or Open Circuit
EC-Off	<1.8 VDC
Shutdown Idle Current	10 mA
Input Resistance	100K ohms (Ein 0 VDC to 9 VDC)
Control Common	Referenced to Input Minus

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

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