

Ultra-Miniature Programmable Supply

0 to ± 100 through 0 to $\pm 2,000$ VDC @ 1 Watt
C Series

EMCO
High Voltage Corporation



The C Series is a line of miniature, precision regulated power supplies featuring excellent stability and low ripple. The output voltage is programmable via a 0 to 5 volt programming voltage. Temperature drift is typically less than 50 PPM/°C. These models exhibit very low ripple, noise, and EMI/RFI by utilizing a quasi-sinewave oscillator, excellent

filtering techniques, and an isolated steel enclosure featuring a separate grounding pin. An externally accessible potentiometer provides adjustable gain trim, allowing for individual calibration of units. Positive and negative voltages are available from stock in small quantities.

FEATURES

- Ultra-Miniature Size
- High Stability, <50 PPM/°C typically
- Very Low Ripple
- External Gain Adjust
- 0 to 100% Programmable Output
- Low Power Draw
- Steel Case with Isolated Ground
- Wide Input Voltage Range
- Excellent EMI/RFI Shielding
- PCB Mountable

APPLICATIONS

- Photomultiplier Tubes
- Avalanche Photodiodes
- Piezo Devices
- Precision Lenses
- Electrophoresis

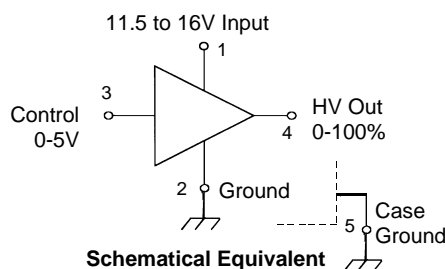
PHYSICAL CHARACTERISTICS

SIZE: 1.1" x 1.4" x 0.5" (35.5 x 28 x 12.5 mm)
WEIGHT: 1.1 Ounce (31 Grams)
PACKAGING: Epoxy Encapsulated
CASE MATERIAL: Zinc Plated Steel
PINS: 0.03" Diameter, 0.2" Long (0.76 x 5 mm)

ELECTRICAL SPECIFICATIONS

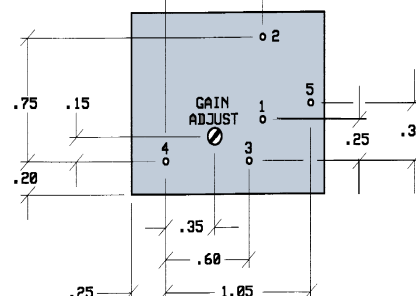
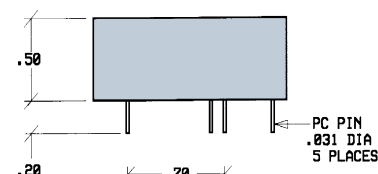
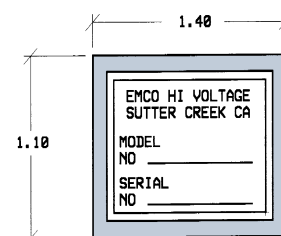
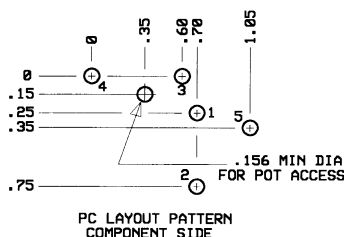
INPUT VOLTAGE: 11.5 to 16 Volts
INPUT CURRENT, FULL LOAD: <250 mA
OUTPUT VOLTAGE: See Table
OUTPUT CURRENT: See Table
CONTROL VOLTAGE: 0 to 5 Volts, <50 uA
RIPPLE: See Table
REGULATION: 0.25%
OPERATING TEMP: -10° to +60° C

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	TYPICAL INPUT CURRENT		TYPICAL RIPPLE	
			NO LOAD	FULL LOAD	NO LOAD	FULL LOAD
C01	0 to 100	10 mA	<8mA	<250mA	<0.005%	<0.075%
C02	0 to 200	5 mA	<10mA	<180mA	<0.0025%	<0.01%
C03	0 to 300	3.3 mA	<10mA	<160mA	<0.0025%	<0.03%
C05	0 to 500	2 mA	<16mA	<135mA	<0.002%	<0.004%
C06	0 to 600	1.67 mA	<20mA	<150mA	<0.001%	<0.003%
C10	0 to 1,000	1 mA	<30mA	<135mA	<0.004%	<0.003%
C15	0 to 1,500	0.67 mA	<50mA	<150mA	<0.001%	<0.002%
C20	0 to 2,000	0.5 mA	<50mA	<150mA	<0.001%	<0.002%
Photomultiplier Models						
CPMT	0 to 1,250	1 mA	<35mA	<170mA	<0.002%	<0.004%
CPMTN	0 to -1,250	1 mA	<50mA	<120mA	<0.002%	<0.003%



PIN #	FUNCTION
1	Input
2	Ground
3	Control Volt 0-5 V
4	Output
5	Case (must be grounded)

Dimensional Tolerances: ± 0.03



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We reserve the right to make changes without notification

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