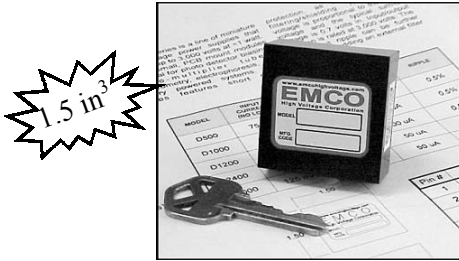


Miniature DC to HV DC Converters

www.emcohighvoltage.com

EMCO
High Voltage Corporation

0 to + or -100 through 0 to + or -6,000 VDC @ 1.5 Watts
G Series



The G Series is a line of miniature, versatile component level building blocks that provide up to 6,000 VDC, positive or negative, in a compact PC mount package. The isolated output is directly proportional to the input, and is linear from approximately 0.7 volts in. Excellent filtering techniques and a low noise quasi-sinewave oscillator provide clean, reliable DC to HV DC conversion with low ripple, and low EMI/RFI. The isolated output

allows for user selectable output polarity. An output center-tap option which, when grounded, provides both positive and negative outputs from one compact, low cost module. The pin pattern on the G Series allows for a direct drop-in replacement for many larger high voltage modules. The GPMT model has been specifically designed for biasing PMT's. Contact our Applications Department for immediate technical assistance.

FEATURES

- Low Ripple
- Miniature Case Size
- Low EMI/RFI Sinewave Oscillator
- Proportional Input/Output
- User-Selectable Output Polarity
- Low Cost/High Performance

OPTIONS

- Output Center Tap, See CT Series
- AC Output, See AC Series
- External Mounting Box, See AB Series
- Low Power Consumption, See GP Series

APPLICATIONS

- Non-impact Printers
- Sustaining Ion Pumps
- Piezo Devices
- Vacuum Gauges
- Photomultiplier Tubes
- Spectrometry
- Electrostatic Chucks
- Lamp Ignition and Drive
- Displays (see AC output option)

PHYSICAL CHARACTERISTICS

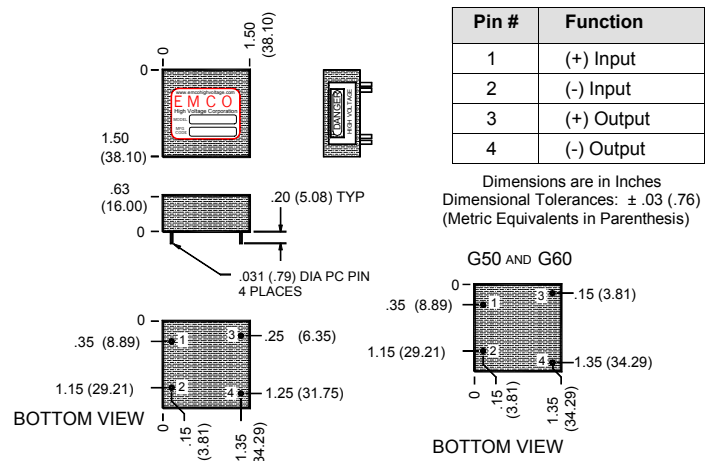
- SIZE: 1.5 x 1.5 x 0.63 (38.1 x 38.1 x 16.0)
- WEIGHT: 1.5 Ounces (43 Grams) Approx.
- PACKAGING: Fully Encapsulated
- CASE MATERIAL: Glass-filled Epoxy
- PINS: .031 (.79) Diameter, 0.2 (5.1) Long

ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE: 0 to 12 Volts
- TYPICAL TURN-ON VOLTAGE: 0.7 Volts
- INPUT CURRENT, FULL LOAD: 250 mA
- OUTPUT VOLTAGE: See Table
- OUTPUT CURRENT: See Table
- RIPPLE: See Table
- LOAD REGULATION: 10% (No Load to Full Load)
- ISOLATION: 3,500 Volts (Input to Output)
- OPERATING TEMP: -10° to +60° C

MODEL	INPUT CURRENT (NO LOAD)	INPUT CURRENT (FULL LOAD)	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE
G01	<100 mA	<250 mA	0 to +/-100	15 mA	1.75%
G02	<100 mA	<250 mA	0 to +/-200	7.5 mA	0.75%
G03	<100 mA	<250 mA	0 to +/-300	5 mA	0.75%
G05	<100 mA	<250 mA	0 to +/-500	3 mA	0.025%
G06	<100 mA	<250 mA	0 to +/-600	2.5 mA	0.1%
G10	<100 mA	<250 mA	0 to +/-1,000	1.5 mA	0.1%
G12	<150 mA	<275 mA	0 to +/-1,200	1.25 mA	0.1%
G15	<125 mA	<275 mA	0 to +/-1,500	1 mA	0.5%
G20	<165 mA	<275 mA	0 to +/-2,000	0.75 mA	0.5%
G25	<125 mA	<275 mA	0 to +/-2,500	0.6 mA	1.0%
G30	<125 mA	<300 mA	0 to +/-3,000	0.5 mA	1.0%
G40*	<125 mA	<300 mA	0 to +/-4,000	0.37 mA	1.0%
G50*	<125 mA	<300 mA	0 to +/-5,000	0.3 mA	2.0%
G60*	<125 mA	<300 mA	0 to +/-6,000	0.25 mA	2.0%
Photomultiplier Model					
GPMT	<20 mA	<75 mA	0 to +/-1,250	350 uA	.05%

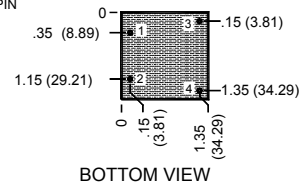
*Caution: Models G40, G50 & G60 do not have internal bleeder resistors on the output. Provisions must be made externally to discharge the output capacitors if this feature is desired.



Pin #	Function
1	(+) Input
2	(-) Input
3	(+) Output
4	(-) Output

Dimensions are in Inches
Dimensional Tolerances: ± .03 (.76)
(Metric Equivalents in Parenthesis)

G50 AND G60



e-mail sales@emcohighvoltage.com
Web site www.emcohighvoltage.com

Phone (209) 223-3626 Fax (209) 223-2779
11126 Ridge Road, Sutter Creek CA 95685