

Miniature Low Power DC to HV DC Supply

500 through 3,000 VDC @ <1 Watt
D Series

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EMCO
High Voltage Corporation



The "D" Series is a line of miniature high voltage power supplies providing up to 3,000 volts at <1 watt. These small, PCB mount modules are ideal for photo detector biasing, photo-multiplier tubes, spectrometry, electrophoresis, and battery powered systems. This series

features short circuit protection as well as R.F.I. filtering/shielding. The output voltage is proportional to the input voltage and the typical turn-on voltage is 0.7 volts in. Input/output isolation is rated at 3,000 volts. The low output ripple can be further reduced by adding an external filter capacitor.

FEATURES

- Miniature Case Size
- Low Ripple
- Short Circuit Protection
- Low Cost/High Performance
- R.F.I. Filtering/Shielding
- Proportional Input/Output
- 3,000 Volts Input/Output Isolation

OPTIONS

External Mounting Box (See "AB" Series)

APPLICATIONS

- Photodiodes
- Detectors
- Photomultiplier Tubes
- Battery Powered Systems
- Spectrometry
- Electrostatic Field Generator

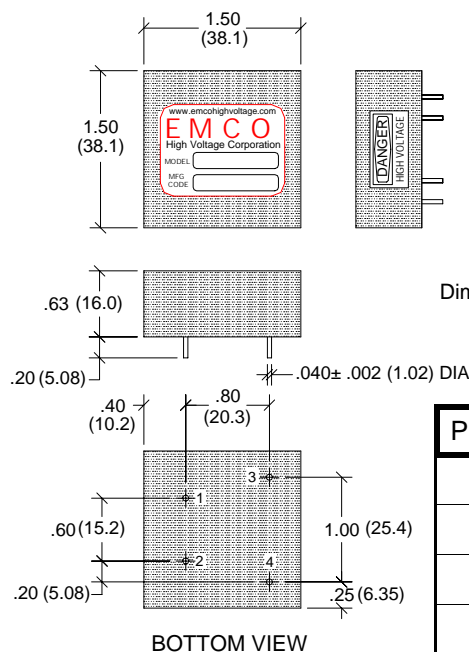
PHYSICAL CHARACTERISTICS

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: 0.04 (1.02) Diameter, .20 (5.08) Long

ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: 0 to 10 Volts
TYPICAL TURN-ON VOLTAGE: 0.7 Volts
OUTPUT VOLTAGE: See Table
OUTPUT CURRENT: See Table
RIPPLE: See Table
REGULATION: 5% (Half Load to Full Load)
ISOLATION: 3,000 Volts (Input to Output)
OPERATING TEMP: -10° to +60° C

MODEL	INPUT CURRENT	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE
D500	75 mA	0 to 500	240 uA	0.5%
D1000	75 mA	0 to 1,000	120 uA	0.5%
D1200	75 mA	0 to 1,200	100 uA	0.5%
D2400	125 mA	0 to 2,400	50 uA	0.5%
D3000	125 mA	0 to 3,000	50 uA	1%



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

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