

# Low Noise, Proportional High Voltage Modules

www.emcohighvoltage.com

**EMCO**  
High Voltage Corporation

0 to + or - 300 through 0 to + or - 3,000 VDC @ 1.5 Watts  
L Series



## FEATURES

- Low Ripple
- Proven Reliability
- Extensive Filtering and Shielding
- Proportional Input/Output
- Low Cost/High Performance
- L15B and L30B replace obsolete "Venus" C15 and C30 Models

## OPTIONS

- External Metal Enclosure
- Two Pin-Patterns

## APPLICATIONS

- Photomultiplier Tubes
- Mass Spectrometers
- Avalanche Photo Diodes
- Microchannel Plates

## PHYSICAL CHARACTERISTICS

SIZE: 2.5 x 1.5 x 0.85 (64 x 38 x 22 )  
 WEIGHT: 3 Ounces (85 Grams) Approx.  
 PACKAGING: Fully Encapsulated  
 CASE MATERIAL: Glass-filled Epoxy  
 MOUNTING: Four PC Pins  
 or Holes ( "A" pin-out pattern only )

## ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: 0 to 12 Volts  
 INPUT CURRENT: <150mA no load  
 <300mA full load  
 TYPICAL TURN-ON VOLTAGE: <2 Volts  
 OUTPUT VOLTAGE: See Table  
 OUTPUT CURRENT: See Table  
 RIPPLE: See Table  
 REGULATION: 10% (No Load to Full Load)  
 ISOLATION: 3,500 Volts  
 OPERATING TEMP: -10° to +60° C

The L Series is a line of small, versatile, component level building blocks that provide up to 3,000 VDC, positive or negative, in a compact PC mount package. The isolated output is directly proportional to the input. Either output may be grounded to generate positive or negative high voltage. Excellent filtering techniques

and a low noise sinewave oscillator provide clean, reliable DC to HV DC conversion with low ripple, noise, and EMI/RFI. Two pin-out options are available in this series; add an "A" or "B" for your choice (see below). An external metal enclosure is also available, just add an "AB" to the model number (i.e. L30BAB).

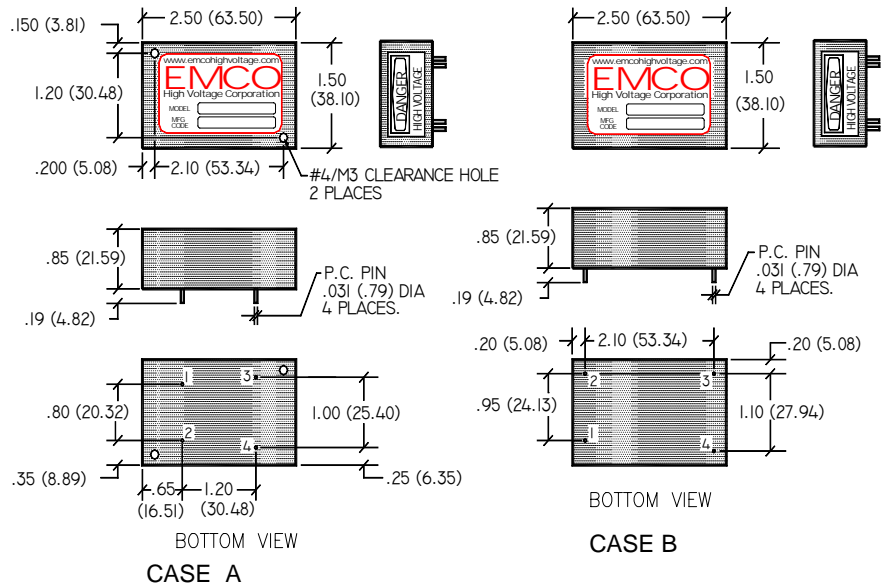
MODEL* <sup>2</sup>	OUTPUT VOLTAGE	OUTPUT* <sup>1</sup> CURRENT	RIPPLE P-P
L03	0 to 300	5.00 mA	0.075%
L05	0 to 500	3.00 mA	0.075%
L10	0 to 1,000	1.50 mA	0.025%
L12	0 to 1,200	1.25 mA	0.025%
L15	0 to 1,500	1.00 mA	0.030%
L20	0 to 2,000	0.75 mA	0.025%
L25	0 to 2,500	0.60 mA	0.200%
L30	0 to 3,000	0.50mA	0.200%

\*Notes1. At Maximum Rated Output Voltage.

2. Pin-out pattern "A" or "B" must be specified with model number (e.g. L05B ), see below.

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

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



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

Phone (209) 267-1630 Fax (209) 267-0282  
 70 Forest Products Road, Sutter Creek CA 95685

We reserve the right to make changes without notification