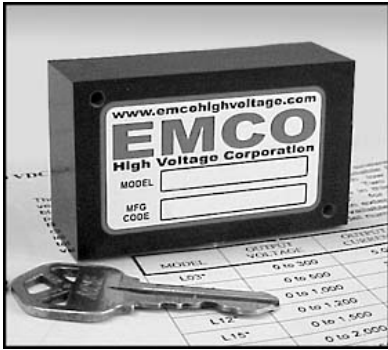


# Low Noise, Proportional High Voltage Modules

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
- MTBF > 2.31 million hours per Bellcore TR-332

## OPTIONS

- Low Outgassing Epoxy (NASA approved per ASTM E-585-93)
- UL 94 V0 rated Epoxy
- Two Pin Patterns (Order as L12A or L12B)
- RoHS option, add 'R' (Example L12B-R)
- External Metal Enclosure add 'AB' (Example L12BAB)
- Reverse Polarity Output (Example L12BR)

## APPLICATIONS

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

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

## 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\*4

- 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

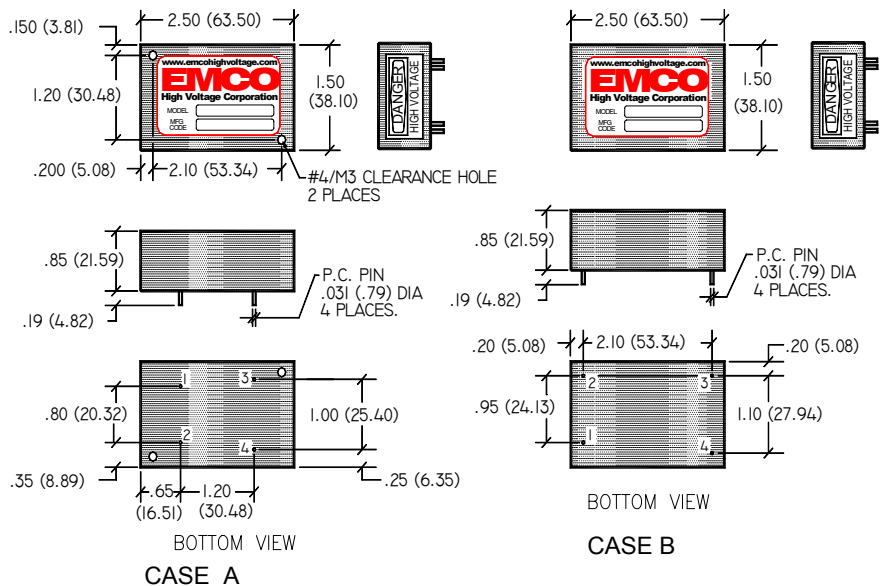
and a low noise sinewave oscillator provide clean, reliable DC to HV DC conversion with low ripple, noise, and EMI/RFI. Two pin-out options are available in this series; add an "A" or "B" for your choice (see below). An external metal enclosure is also available, just add an "AB" to the model number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

MODEL*3	OUTPUT*2 VOLTAGE	OUTPUT*1 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.

- Output Voltage is load dependent. Under light or no load conditions, reduce input voltage so maximum rated output voltage is not exceeded.
- Pin-out pattern "A" or "B" must be specified with model number (e.g. L05B), see below.
- Specifications after 30 minute warm-up, full load, at 25°C unless otherwise noted.
- The rated output current is available at full output voltage and must be derated proportionally as the input voltage decreases. For example: a 500V, 1.5W unit, rated at 3mA at 500V will provide 1.5mA at 250V out.

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



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We reserve the right to make changes without notification