



# American Power Design, Inc.

"The best high voltage design solution"

## L3 SERIES 3 WATT HIGH VOLTAGE LINEAR DC/DC CONVERTERS



## FEATURES

### \* Customer Selects Output Voltage

- \* Outputs to 500 Vdc
- \* Low Profile
- \* Excellent Line & Load Regulation
- \* Low Output Ripple
- \* 60 kHz Switching Frequency
- \* 1000 Vdc Output Isolation
- \* Continuous Short Circuit Protection
- \* Economical

The L3 Series Low Profile DC/DC converter offers a 1000 Vdc isolated high voltage output in a six-sided copper case. Their small size, low output ripple, and excellent regulation characteristics make them ideally suited for applications that demand a high degree of performance. All models will tolerate a short circuit indefinitely.

## ELECTRICAL SPECIFICATIONS

Voltage Accuracy .....	+/-1%	Input Range.....	+/-10%
Input Regulation .....	+/- 0.1%	Input Filter.....	Low ESR Capacitor
Load Regulation .....	+/- 0.2%	Short Circuit Protection .....	Continuous
Output Ripple .....	< 0.05%	Switching Frequency .....	60 kHz
		Isolation.....	1000 Vdc

## GENERAL SPECIFICATIONS

Temp. Stability .....	+/-0.3%/°C	EMI/RFI.....	Six Sided Shield
Temp. (Operating , Case) .....	0 to +70°C	Temp. Derating.....	None
Temp. (Storage) .....	-40 to +100°C	Cooling.....	Free-Air Convection

\* All models designed to meet UL 60950  
 \* For RoHS Compliant part, add suffix /Y

## PHYSICAL SPECIFICATIONS

Dimensions .....	1 x 2 x 0.41 inches	Case Material .....	Nickel Plated Copper (With Non-Conductive Base Plate)
Weight .....	1.2 Oz		



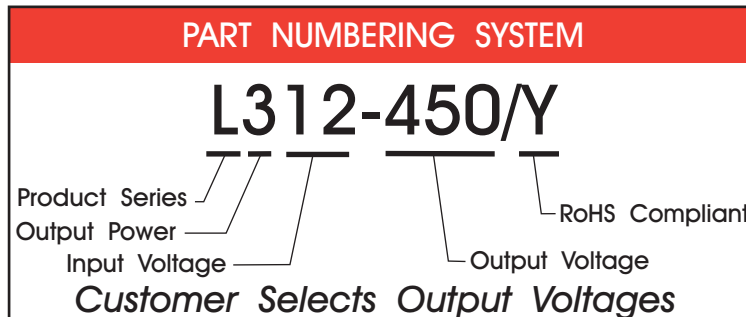
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REPRESENTATIVE MODEL LISTING					
OUTPUT SPECIFICATIONS		MODEL NUMBER			
OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT VDC 5 +/- .5	INPUT VDC 12 +/- 2	INPUT VDC 24 +/- 3	INPUT VDC 48 +/- 5
24 Vdc	125 mA	L35-24	L312-24	L324-24	L348-24
48 Vdc	62.5 mA	L35-48	L312-48	L324-48	L348-48
60 Vdc	50 mA	L35-60	L312-60	L324-60	L348-60
80 Vdc	37.5 mA	L35-80	L312-80	L324-80	L348-80
100 Vdc	30 mA	L35-100	L312-100	L324-100	L348-100
110 Vdc	27 mA	L35-110	L312-110	L324-110	L348-110
120 Vdc	25 mA	L35-120	L312-120	L324-120	L348-120
130 Vdc	23 mA	L35-130	L312-130	L324-130	L348-130
150 Vdc	20 mA	L35-150	L312-150	L324-150	L348-150
200 Vdc	15 mA	L35-200	L312-200	L324-200	L348-200
250 Vdc	12 mA	L35-250	L312-250	L324-250	L348-250
300 Vdc	10 mA	L35-300	L312-300	L324-300	L348-300
350 Vdc	8.5 mA	L35-350	L312-350	L324-350	L348-350
400 Vdc	7.5 mA	L35-400	L312-400	L324-400	L348-400
450 Vdc	6.6 mA	L35-450	L312-450	L324-450	L348-450
500 Vdc	6 mA	L35-500	L312-500	L324-500	L348-500

*\* RoHS Compliant add suffix /Y*

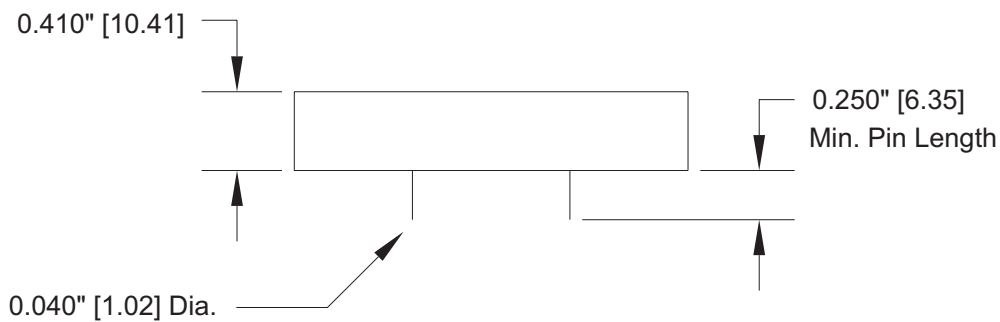
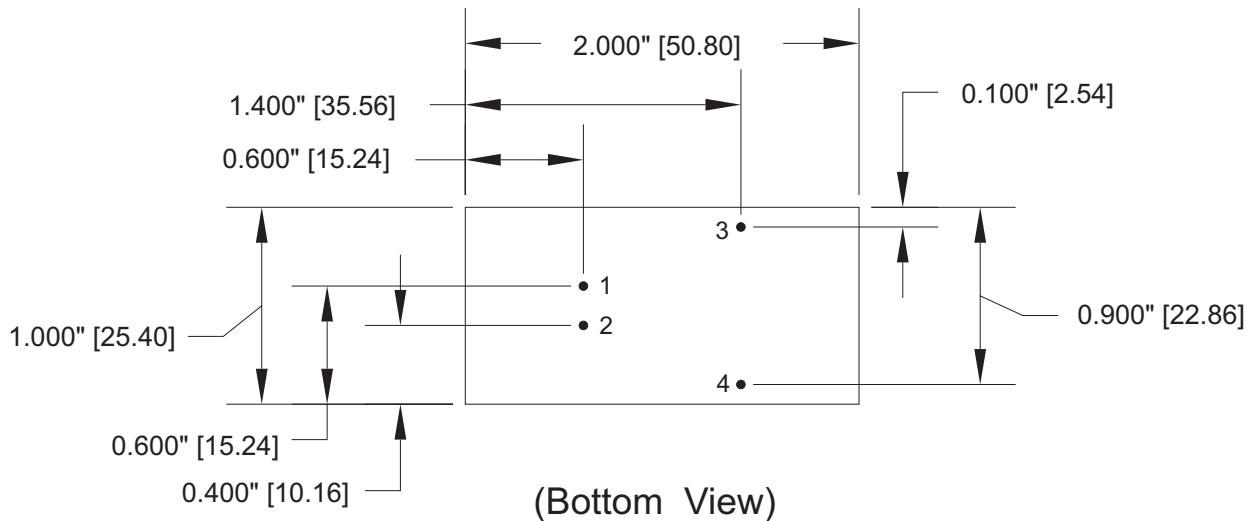




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Pin #	Single
1	+ INPUT
2	- INPUT
3	+ OUTPUT
4	- OUTPUT

*Dimensions are in Inches  
[Metric equivalents in brackets]*