

Dual Configuration Power Entry Module

L Series



UL Recognized
CSA Certified
VDE Approved



L Series

- Power entry module with switch or fuse
- For 10A capability and high performance filtering see the P Series on page 192
- Two element circuit provides extended EMI attenuation similar to EAB inlet filter
- North American or metric fuse holders
- Available with minimal leakage current for medical applications (HL models)

Ordering Information



Specifications

Maximum leakage current each Line to Ground:

| | <u>DL Models</u> | <u>HL Models</u> |
|------------------|------------------|------------------|
| @ 120 VAC 60 Hz: | .25 mA | 2 µA |
| @ 250 VAC 50 Hz: | .50 mA | 5 µA |

Hipot rating (one minute):

| | |
|-----------------|----------|
| Line to Ground: | 2250 VDC |
| Line to Line: | 1450 VDC |

Operating Voltage:

| | |
|--------------------------|---------------------------|
| 1S & 1SC models (fixed): | 250 VAC max. |
| 4 & 4C Suffix: | 100, 120, 220 or 240 VAC. |

Operating Frequency:

50/60 Hz

Rated Current:

2 to 6A

Required Fuse(s):

| | |
|-----------------|---|
| North American: | one .25 x 1.25" (<i>not included</i>) |
| Metric: | two 5 x 20mm (<i>not included</i>) |

Switch:

DPST
10,000 operations at 51A max. inrush



Dual Configuration Power Entry Module *(continued)*

L Series

| Available Part Numbers | | North American Fusing | | Metric Fusing | |
|------------------------|-----------------------------|-----------------------|---------|---------------|----------|
| | | Flange Mount | Snap-In | Flange Mount | Snap-In |
| Non-Filtered | Single Voltage, Switched | 6EL1S | 6EL1SC | 6EL1SM | 6EL1SCM |
| | 4 Voltage Select, No Switch | 6EL4 | 6EL4C | 6EL4M | 6EL4CM |
| General Purpose Filter | Single Voltage, Switched | 2EDL1S | 2EDL1SC | 2EDL1SM | 2EDL1SCM |
| | | 4EDL1S | 4EDL1SC | 4EDL1SM | 4EDL1SCM |
| | | 6EDL1S | 6EDL1SC | 6EDL1SM | 6EDL1SCM |
| | 4 Voltage Select, No Switch | 2EDL4 | 2EDL4C | 2EDL4M | 2EDL4CM |
| | | 4EDL4 | 4EDL4C | 4EDL4M | 4EDL4CM |
| | | 6EDL4 | 6EDL4C | 6EDL4M | 6EDL4CM |
| Medical Filter | Single Voltage, Switched | 6EHL1S | 6EHL1SC | 6EHL1SM | 6EHL1SCM |
| | 4 Voltage Select, No Switch | 6EHL4 | 6EHL4C | 6EHL4M | 6EHL4CM |

Voltage Selection



To change selected voltage: disconnect the power cord; open cover using a small blade screwdriver or similar tool; insert the tool into the voltage selection slot and remove wheel from unit; select desired voltage; replace wheel into unit and close cover, making sure the selected voltage appears in connector window.

Recommended Panel Cutouts



- Notes:
- (1) For panel thickness of .031 – .079 [0.8 – 2.0]
 - (2) For panel thickness of .083 – .126 [2.1 – 3.2]
 - (3) Mounting Holes .126 [3.20] Dia. for flange mounted versions only
 - (4) For Snap-In applications, the 1.12 [28.5] sides of the cutout must have a .02 [.508] radius on the installation side. Not required for flange mount versions.

Dual Configuration Power Entry Module *(continued)*

L Series

Electrical Schematics

DL Models

Single Voltage, Switched (DL1S)



4 Voltage Select, No-Switch (DL4)



HL Models

Single Voltage, Switched (HL1S)



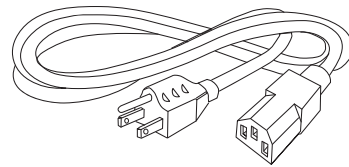
4 Voltage Select, No-Switch (HL4)



Note 1: Provision for dual Metric style fusing
Note 2: On/Off switch present only with "S" suffix models

Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



LA303: Voltage Select Wheel, 3 position
Selection drum for use with L4 models.
Marked with 110V, 220V and 240V

LA304: Voltage Select Wheel, 4 position
Selection drum for use with L4 models.
Marked with 100V, 110V, 220V and 240V.
One LA304 comes standard with each L4 model.



LA400: Blank insert
Blank to replace switch in single voltage models

LA601: Insulating Boot
Plastic shroud to cover back of module to prevent inadvertent access

Replacement Fuse Holders

LA200: North American Fuseholder
Accommodates one .25 x 1.25" fuse

LA201: Metric Fuseholder
Accommodates one 5 x 20mm metric fuse



Dual Configuration Power Entry Module *(continued)*

L Series

Case Styles

Flange Models, Non-filtered



Switched model shown, for non-switched detail refer to snap-in models

Typical Dimensions:
Line Inlet (1): IEC 60320-1 C14
Backplate Terminals: .110 [2.79]
Switch Terminals: .187 [4.765] with .07 x .16 [1.8 x 3.8] slot

Snap-in Models, Non-filtered



Non-switched model shown, for switched detail refer to flange models

Typical Dimensions:
Line Inlet (1): IEC 60320-1 C14
Backplate Terminals: .110 [2.79]
Switch Terminals: .187 [4.765] with .07 x .16 [1.8 x 3.8] slot

Flange Models, Filtered



Switched model shown, for non-switched detail refer to snap-in models
Metric fuse models have an additional jumper from filter to module

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Line Inlet (1): IEC 60320-1 C14
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Case Dimensions

| | A | B | C | D | E | F |
|--------------------|----------------------|-------------------------|---------------------|----------------------|----------------------|----------------------|
| Model No. | (max.) | $\pm .015$ $\pm .38$ | (max.) | (max.) | (max.) | (ref.) |
| Flange Unfiltered | 1.98 50.29 | 1.575 40.0 | 2.3 58.42 | 2.14 54.36 | 1.66 42.16 | 1.11 28.19 |
| Snap-in Unfiltered | 1.28 32.51 | - | 2.3 58.42 | 2.14 54.36 | 1.66 42.16 | 1.11 28.19 |
| Flange Filtered | 1.98 50.29 | 1.575 40.0 | 2.3 58.42 | 2.14 54.36 | 2.01 51.05 | 1.11 28.19 |
| Snap-in Filtered | 1.28 32.51 | - | 2.3 58.42 | 2.14 54.36 | 2.01 51.05 | 1.11 28.19 |

Dual Configuration Power Entry Module *(continued)*

L Series

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system

2EDL



4EDL



6EDL



6EHL



— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

| Current Rating | Frequency – MHz | | | | | |
|-------------------|-----------------|-----|----|----|----|----|
| | .05 | .15 | 1 | 5 | 10 | 30 |
| EDL Models | | | | | | |
| 1A | 6 | 14 | 24 | 40 | 45 | 50 |
| 3A | 2 | 8 | 18 | 32 | 38 | 45 |
| 6A | 1 | 6 | 17 | 31 | 37 | 45 |
| EHL Models | | | | | | |
| 6A | 3 | 8 | 15 | 18 | 18 | 18 |

Differential Mode / Symmetrical (Line to Line)

| Current Rating | Frequency – MHz | | | | | | |
|-------------------|-----------------|-------|----|----|----|----|----|
| | .05 | .15.5 | 1 | 3 | 5 | 10 | 30 |
| EDL Models | | | | | | | |
| 1A | 7 | 16 | 21 | 23 | 37 | 47 | 50 |
| 3A | 6 | 14 | 18 | 23 | 26 | 45 | 47 |
| 6A | 6 | 15 | 20 | 25 | 24 | 45 | 50 |
| EHL Models | | | | | | | |
| 6A | 4 | 14 | 20 | 28 | 32 | | |

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