

■ Surge Protection  
For *Business-Critical Continuity™*

## PowerSure™ LPM/LPL Series

Surge Protection Solutions For Distribution Panels



Electric power line disturbances such as high voltage transients can disrupt or damage sensitive electronic equipment – causing a major loss in productivity and money. Liebert understands this problem and offers the PowerSure™ Low and Medium Exposure surge protective devices – the reliable way to keep these power problems from getting into your facility in the first place.

- **PowerSure™ Low Exposure** – Designed for use on branch panels or equipment in low exposure locations. Available up to 100kA/phase surge current capacity. LED status indication and Form C contacts for remote indication are standard.
- **PowerSure™ Medium Exposure** Offers protection from transients on distribution panels or any medium exposure location. Available in 100kA/phase and 160kA/phase, all mode and two mode protection, small footprints, NEMA 12 enclosure, silver link fusing with thermal protection, all voltage and phase configurations, 5-year warranty.

## PowerSure™ LPM/LPL Series Technical Specifications

	Low Exposure (LPL)	Medium Exposure (LPM)
Connection Type	Parallel	Parallel
Operating Voltage Range	±15%	±15%
Surge Current Capacity	25kA, 50kA or 100kA	100kA or 160kA
Fault Current Rating (AIC)	14kAIC	65kAIC
Location Type	Type 2	Type 2
Nominal Discharge Current (In)	3kA	10kA
Dimensions	4.72"x4.72"x2.36"	(160 kA units) 8"x6"x4" (100 kA units) 6"x4"x3"
Operating Frequency Range	47-63 Hz	47-63 Hz
Capacity	Continuous	Continuous
EMI/RFI Attenuation	40 dB typical	40 dB typical
Response Time	<0.5nanoseconds	<0.5 nanoseconds
Dry Contact Rating	125 VAC, 8.0A, 1.0pf	125 VAC, 8.0A, 1.0pf
Operating Temperature	-40°C to +50°C	-40°C to +50°C
Operating Humidity	0% to 95%	0% to 95%
Status Indication	LEDs, Dry Contacts	LEDs, Dry Contacts
Certifications	ANSI/UL 1449 Third Edition, cUL, (CE-optional)	ANSI/UL 1449 Third Edition, cUL Listed
Warranty	5-Years	5-Years

## ANSI/UL 1449 Third Edition - Voltage Protection Ratings (VPRs)

	LPL (all-mode models)	LPM 100-2 / LPM160
120 Volt Systems	600V (L-N), 700V (L-G), 700V (N-G), 1000V (L-L)	600V/600V (L-N), 1000V/600V (L-G), 600V/600V (N-G), 1200V/900V (L-L)
208 through 277 Volt Systems	1200V (L-N), 1200V (L-G), 1200V (N-G), 2000V (L-L)	1000V/1000V (L-N), 1800V/1000V (L-G), 1000V/900V (N-G), 2000V/1800V (L-L)
480 Volt Systems	2000V (L-G), 2500V (L-L)	--/1800V (L-G), 2000V/1800V (L-L)

## Ordering Information

### Building a Low and Medium Exposure Model Number:

#### Examples

L P L 1 2 3 (Low Exposure Unit)  
L P M 1 2 3 (Medium Exposure Unit)

(use Model ID column when determining 1, 2, 3 portion of Model Number)

1	Nominal Voltage Requirements			Model ID
	L-N	L-L	L-G	
■	120	N/A	120	<u>120</u>
■	120	208	120	<u>120</u>
■	120	240	240	<u>120</u>
■	N/A	208	208	<u>208</u>
■	230	400	230	<u>230</u>
■	N/A	240	240	<u>240</u>
■	277	480	277	<u>277</u>
■	N/A	400	400	<u>400</u>
■	N/A	480	480	<u>480</u>

2	System Configuration	Model ID
	■ Single (2 Wire + Gnd)	<u>N or L</u>
■ Split (3 Wire + Gnd)	<u>S</u>	
■ Wye (4 Wire + Gnd)	<u>Y</u>	
■ Delta Hi-Leg (4 Wire + Gnd)	<u>H</u>	
■ Delta (3 Wire + Gnd)	<u>D</u>	

3	Surge Current Capacity	Model ID
	<i>(Low Exposure)</i>	
■	100 kA/Phase (L-N: 50 kA + L-G: 50 kA; N-G: 50 kA)	<u>100</u>
■	50 kA/Phase (L-N: 25 kA + L-G: 25 kA; N-G: 25 kA)	<u>50</u>
■	25 kA/Phase (L-N: 25 kA; N-G: 25 kA)	<u>25-2</u>
<i>(Medium Exposure)</i>		
■	160 kA/Phase (L-N: 80 kA + L-G: 80 kA; N-G: 80 kA)	<u>160</u>
■	100 kA/Phase (L-N: 100 kA; N-G: 100 kA)	<u>100-2</u>

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