

■ Surge Protection
For *Business-Critical Continuity™*

Liebert® PanelGuard™ Extension

Clean Power Distribution For Electronic Panelboards



The Liebert PanelGuard Extension is an add-on device for integration with panelboards at the jobsite for enhanced surge suppression.

Liebert PanelGuard Extension minimizes data corruption, errors, system re-boots and component failure. Sine wave tracking circuitry filters high frequency electrical line noise. Patented component level monitoring, including neutral to ground, allows status detection in real time.

Features & Benefits

- **Flexible mounting** (top or bottom) to virtually any panelboard.
- **Universal panelboard application** — can be used with most major manufacturers.
- **UL 1449 and UL 1283**
- **Surge current capacity** levels from 130kA per phase to 200kA per phase.
- **Standard features** include all modes of protection, unit status indicators and isolated form C dry contacts.
- **Options include:** audible alarm, transient counter.

Specifications

Surge Current Capacity

Protection Mode	Minimum Tested Impulses Per Mode	Single Pulse Surge Current Capacity		
		Model 100	Model 80	Model 65
Line-to-Neutral	> 3,500	> 100,000 A	> 80,000 A	> 65,000 A
Line-to-Ground	> 3,500	> 100,000 A	> 80,000 A	> 65,000 A
Neutral-to-Ground	> 3,500	> 100,000 A	> 80,000 A	> 65,000 A
Line-to-Line	> 3,500	> 100,000 A	> 80,000 A	> 65,000 A
Per Phase	> 7,000	> 200,000 A	> 160,000 A	> 130,000 A

Duty life cycle tested to survive 20kV, 10kA, IEEE C62.41 Category C3 surge current with less than 5% degradation of clamping voltage.

EMI/RFI Noise Rejection Values

Single Unit	Frequency	System Installation
34 dB	100 kHz	51 dB
51 dB	1 MHz	94 dB
54 dB	10 MHz	114 dB
48 dB	100 MHz	120 dB

All systems EMI-RFI noise or attenuation rejection values are in compliance with test and evaluation procedures outlined in NEMA LS 1-1992, paragraphs 2.2.11 and 3.11.

UL 1449 RATINGS

System Voltage	Line to Neutral	Line to Ground	Line to Line	Neutral to Ground
120/208 or 120/240	400 V	400 V	800 V	400 V
208, 240, 277 or 277/480	800 V	800 V	1500 V	800 V

Enclosure

NEMA 1 rated.

Surface mount dimensions are 12" x 20" x 6".

Flush mount unit is 12" x 21.5" x 6".

Weight is 15 lbs.

How To Order Liebert Liebert PanelGuard™ Extension

Phase configuration	Code
1 Ph, 3W+G. 120/240 VAC	120S
3 Ph, 4W+G. 120/208 VAC	120Y
3 Ph, 4W+G. 277/480 VAC	277Y

Other phase configurations available.
Please consult factory.

kA per mode/per phase	Code
65 kA per mode, 130 kA per phase	65
80 kA per mode, 160 kA per phase	80
100 kA per mode, 200 kA per phase	100

Trim type	Code
Surface mount trim	S
Flush mount trim	F

Monitoring options	Code
Standard Status LEDs only	-00
LEDs, Audible Alarm, Counter	-01
LEDs, Audible Alarm	-02
LEDs, Counter	-03

How to construct a Liebert PanelGuard Extension (LPGE) model #	Code
1. Liebert PanelGuard Extension	LPGE
2. Phase configuration	120S
3. kA per mode/per phase	65
4. Trim type: surface mount	S
5. Monitoring options	-01

Sample model #: LPGE120S65S-01

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