

# **GB** **MODULAR PARALLEL** **SURGE PROTECTION DEVICE**



The **GB** is a modular unit connected in parallel with ten modes of protection. It is appropriate and rated for use at Category C3, C2 or C1 service entrance locations and all Category B distribution panel locations. Offering both common and normal mode protections, the GB provides protection against lightning, utility switching and internally generated transients. GB models suppress and filter even the highest and most damaging transients up to 600kA. GB surge suppressors do not incorporate fusing elements that restrict the unit's ability to repetitively suppress transients up to its full rated surge capacity.

## **Applications**

### **Loads requiring a high level of protection:**

- Laboratory/science facilities
- Sophisticated electrical systems
- Essential manufacturing operations
- Government facilities
- Offices
- Medical equipment
- Schools



## **Features**

### **UL 1449 2nd Edition, CSA and UL 1283 Listed**

### **Linear Array Design**

Distributes and shares transient energy among the MOVs

### **Modes of Protection**

Normal mode (L-N, L-L) and common mode (L-G, N-G)

### **Individual MOV Fusing**

Ensures uninterrupted protection at high surge current levels with fusing coordinated to MOV capacity

### **MCOV Greater than Line-to-Line Voltage**

Provides continuous, safe protection during extreme overvoltages

### **Capacitance Filtering**

To reduce line noise

### **Bus Bar Interconnection**

Reduces impedance for maximum clamping performance

### **Bolt-on Replaceable Modules Per Phase**

Ensures positive connection and allows for easy replacement

### **Redundant Indicator Lights**

Provides visual indication of protection status on both modules and enclosure door

### **Sine Wave Tracking**

Provides extended range filtering throughout the sine wave

### **Metal Enclosure with Compression Lock**

Provides additional safety

### **Repetitive Impulse Tested**

Ensures maximum performance and longevity

(Category C3 impulses per ANSI/IEEE C62.41 – 1991 and ANSI/IEEE C62.45-1992)

### **Long Duration Stress Tested**

Provides maximum protection during sustained transients per ANSI/IEEE C62.41 10/1000us current waveform

### **Single Impulse Tested by Independent Lab**

Independent verification of surge current capability

### **FIVE YEAR Unlimited Warranty Standard**

Provides unlimited replacement during the warranty period

## **SURGE SUPPRESSION SPECIALISTS**

### **East Coast - HQ**

800-654-8087

813-621-1324

813-621-8980

800

Phone

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### **West Coast**

800-881-8506

208-762-6188

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Internet: [www.leaintl.com](http://www.leaintl.com)

# GB MODULAR PARALLEL SURGE PROTECTION DEVICE

Model	Surge Current Capacity Per Phase	Modes of Protection	Surge Current Capacity Per Mode	Category Rating and Exposure Level	Dimensions and Weight – (3Y or 3D)
<b>Gb400s</b>	600kA	Normal: L-N Differential: L-L Common: L-G N-G	L-N: 300kA L-L: 600kA L-G: 300kA N-G: 300kA	Category C3 High Exposure	w/ Disconnect: 24 x 24 x 8.8 (77 lbs.) w/o Disconnect: 24 x 24 x 8.8 (73 lbs.)
<b>Gb300s</b>	450kA	Normal: L-N Differential: L-L Common: L-G N-G	L-N: 225kA L-L: 450kA L-G: 225kA N-G: 225kA	Category C3 High Exposure	w/ Disconnect: 24 x 16 x 8.8 (60 lbs.) w/o Disconnect: 20 x 16 x 8.8 (56 lbs.)
<b>Gb200s</b>	300kA	Normal: L-N Differential: L-L Common: L-G N-G	L-N: 150kA L-L: 300kA L-G: 150kA N-G: 150kA	Category C3 High Exposure	w/ Disconnect: 24 x 16 x 8.8 (54 lbs.) w/o Disconnect: 20 x 16 x 8.8 (50 lbs.)
<b>Gb100s</b>	225kA	Normal: L-N Differential: L-L Common: L-G N-G	L-N: 112.5kA L-L: 225kA L-G: 112.5kA N-G: 112.5kA	Category C3 High Exposure	w/ Disconnect: 24 x 16 x 8.8 (48 lbs.) w/o Disconnect: 20 x 16 x 8.8 (44 lbs.)
<b>Gb50s</b>	112.5kA	Normal: L-N Differential: L-L Common: L-G N-G	L-N: 56.25kA L-L: 112.5kA L-G: 56.25kA N-G: 56.25kA	Category C3 High Exposure	w/ Disconnect: 24 x 16 x 8.8 (42 lbs.) w/o Disconnect: 20 x 16 x 8.8 (38 lbs.)

NOTE: Consult factory for clamping voltage data.

Standard Voltage Configurations	Suffix	Available Options	Electrical Specifications
120/240-SP 120/208-3Y 120/240-3D "HI-LEG" 220/380-3Y 277/480-3Y 347/600-3Y 240-3D 480-3D Consult Factory for other voltage configurations	A B C D F G H PNL 3R,4,4X	Dry Contacts Digital Surge Counter/Dry Contacts Audible Alarm with Silence Switch/ Dry Contacts Internal Non-fused Disconnect Integral Fused Disconnect Remote Status Monitor/ Dry Contacts Spare Module Panel Only for Internal Switchboard Mounting NEMA 3R, 4, or 4X enclosure	Nominal Operating Voltage: 120 – 600 VAC Frequency Range: 47 – 63 Hz Response Time: <1 nanosecond Sine-Wave Tracking: Yes Noise Attenuation: 100kHz 50dB 1MHz 51dB 10MHz 47dB 100MHz 39dB Enclosure Type: NEMA 12 is standard (Others available) Mounting: Surface mount (Flush available)

### Ordering:

Please specify model number, voltage configuration and option suffix as needed.  
(example: GB200S-120/208-3Y-A)



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