

# DC Protector

**MODEL**

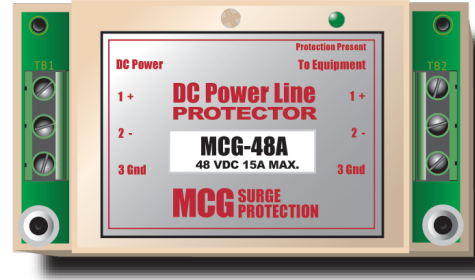
**MCG-12A, 24A, 32A, 48A & 130A**

## Direct Current Equipment Level Protection

The DC Protector installed at or within equipment such as DC servo mechanisms, fire alarm monitoring systems, security system controls, etc. provides compact, heavy-duty surge suppression.

The units employ brute force surge protection to prevent damage or malfunction to sensitive equipment from lightning, switching transients and momentary power supply overvoltages. Reaction time is less than five nanoseconds with automatic reset after the transient has passed.

Designed to protect up to 15A of continuous DC load current when connected in series mode, the DC Protector will support higher load current ratings when optionally shunt installed. Bi-directional all-mode protection means that all potential surge and transient paths are fully covered.



20-Year Warranty

### FEATURES

- Compact Size - Space efficient and easy to install, the DC Protector offers quick, hard-wired installation in locations where space is limited.
- Maximum Surge Protection - Large absorption capability, up to 278j.
- Fast Clamp Response - Currents are intercepted and safely diverted in less than 5 nanoseconds.
- Automatic Reset - The unit automatically resets after an overvoltage transient condition has occurred. A green LED gives verification that the unit is operational and full protection is present.
- All Mode Protection - positive to negative, positive to ground, negative to ground.

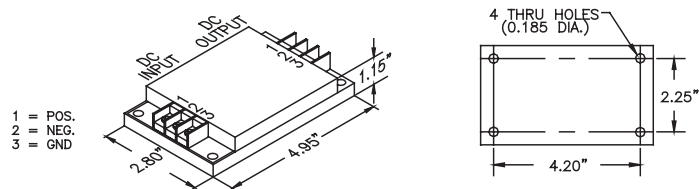
Maximum continuous operating VDC:	125% rated voltage
Response time:	<5 nanoseconds
Surge current (8/20μs): 1 Event:	4kA
10,000 Events:	300A
Power present indicator:	Green LED
Operating altitude:	13,000 ft. (4000m)
Temperature (Operating):	-40° to +55°C
Temperature (Storage):	-40° to +85°C
Enclosure:	High-impact Plastic
Dimensions:	Dimensions: 4.95" x 2.85" x 1.25"
Mounting:	Mounting: 4.20" x 2.25"/0.185 ID - 4 holes
Connection:	Touch-Safe terminals

# Specifications

## Direct Current Protection

Model	Rated Voltage (DC +/-15%)	Rated Current (rms@40 C)	Service	Clamp Voltage (1mA)peak	Surge Energy (joules), 10/1000us	Typical Suppression Voltage @50A (8/20)
MCG-12A	12VDC	15A	+ / - / GND	18V	66j	34V
MCG-24A	24VDC	15A	+ / - / GND	33V	138j	53V
MCG-32A	32VDC	15A	+ / - / GND	47V	198j	84V
MCG-48A	48VDC	15A	+ / - / GND	68V	278j	106V
MCG-130A	130VDC	15A	+ / - / GND	150V	455j	200V

### Mounting Specifications



### Series Connection



### Parallel Connection

