

# REGISTER YOUR PRODUCT

Please visit [www.BadWolfUSA.com/register](http://www.BadWolfUSA.com/register) to activate your warranty

## TIPS

Do not install the surge protector near sources of extreme heat or cold sources. This product is IP68 Rated and can get wet but should not be mounted under water.

## SAFETY INFORMATION

The surge protector is an electrical apparatus with electrical and hardware connections. These safety tips apply to installation and use.

- Be certain to wrap any wire or cable splices thoroughly with insulating electrical tape to prevent short circuits.
- Do not route wires in locations that may cause damage to the wire or device.
- Use of device above or below rated voltage range will cause damage to unit.
- Never apply AC power to DC unit and vice versa.
- Device is water, dust, and dirt resistant but installation in clean environment is recommended.
- EMP Defender will not prevent damage due to Electrical wire contact.

## WARRANTY

The surge protector comes with a 5-year limited Manufacturer warranty. During most minor Electrical surges, the surge protector will self-reset once the surge is gone. With large Electrical surges the surge protector may become damaged due to protecting your electrical circuit if this happens this is not a warranty issue it is the design of the product. This surge protector is not designed to prevent damage due to direct contact with high voltage power lines. (See detailed warranty on [www.badwolfusa.com](http://www.badwolfusa.com))

## ABOUT BAD WOLF

The owner Dan Galloway is an Army veteran that was injured during his service. He has over 30 years of electronics design and engineering experience. We are a small business that puts customers before profits. We will never be the biggest company that is not our goal, but we promise to be the best.

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## SPECIFICATIONS

|                           |   |
|---------------------------|---|
| OPERATING VOLTAGE         | 15-30 Volts DC (24V Nominal Voltage)  |
| CURRENT CONSUMPTION       | 3mA (typical)   |
| CASE SIZE                 | 2.75" W x 0.75" H x 2.0" D  |
| WEIGHT                    | 3oz   |
| SURGE RATING              | 150kA Pulsed  |
| RATINGS & TESTING         | IP68   MILITARY (MIL-STD)   COMMERCIAL ISO, UL, CE<br>RoHS   AUTOMOTIVE GM, F, JASO |
| EMP DIRECTED PULSE TESING | 50kV 5kA Close Field Effect ISR class 2   |
| HEMP TESTING              | 90kV/M Phase 1,2,3  |
| EMI / ESD TESTING         | 300kV   |

## INSTALLATION

The surge protector is designed to be used on battery systems and should be mounted as close to the battery as possible. This device does have a small constant electrical draw on the battery and will slowly discharge the battery over an extended period of time if battery is not recharged periodically.

It is recommended that you mount the unit before making electrical connections. If using screws, bolts, rivets, or any other mounting devices that require holes to be drilled. Verify that doing so will not cause damage to the surge protector or to vehicle you are mounting to. (Bad Wolf LLC is not liable for any damage due to improper installation).

Connect the black wire to the negative terminal of the battery (black wire side) first, then connect the red wire to the positive terminal of the battery (red wire side). Once you have connected both wires you will notice that the surge protector lights (eyes) will stay on for approximately 3 seconds as it performs a test of your electrical system. If the surge protector determines that the system is working properly, the lights will start blinking. If you do not see a red lights once electrical connection is made recheck your connections and ensure the battery is charged. It is possible the light is illuminated but you are in a bright setting and unable to see it working, try decreasing ambient light if necessary. If you see constant red lights then protection mode is activated, disconnect the surge protector, and check the electrical system. Once the electrical system has been repaired reconnect the surge protector and check status indicators.

