

BAD WOLF LLC



# Max Solar Surge Protector MC4

## DC Solar Panel Surge Protection



Bad Wolf is the industry leader for high power affordable surge protectors. We recognized most manufacturers use old style components that are lower power, larger, and heavier. Our products are designed using the latest technology making them stronger, faster, smaller, and lighter.

Depending on several factors including geographic location, system voltage and amperage we are able to offer the right protection for you. We also provide custom product solution for our customers.

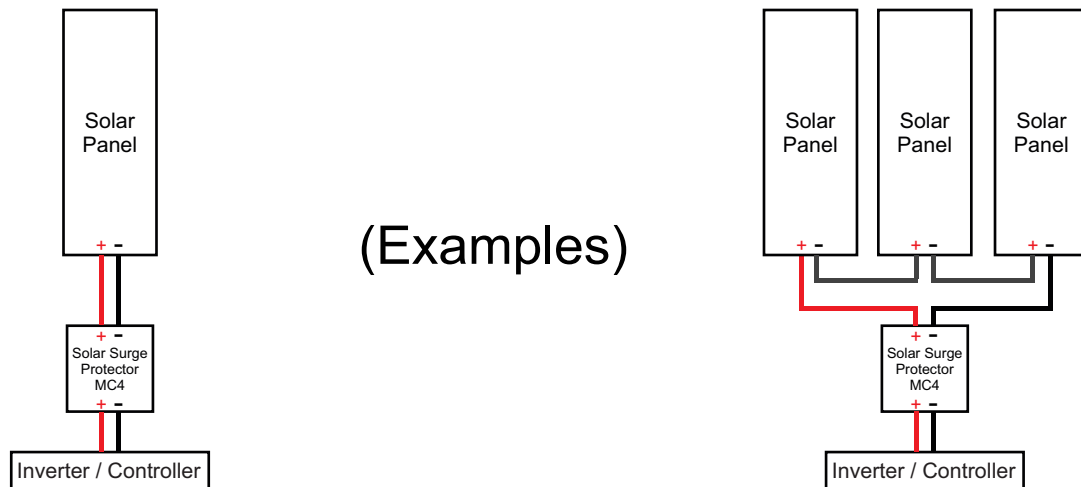
Protection against Lightning and EMP electrical surges.



| Specifications           | MAXSSPMC450V                             |
|--------------------------|--|
| Compliance Certification | MIL-STD-750,188,461 ISO RoHS UL1449 IP64 |
| Typical Response Time    | Less than 1nS (0.000000001 Second)       |
| Connection Type          | MC 4                                     |
| Size                     | 7.25"X3.25"X2"                           |
| LED Indicator            | (Blinking Red = OK)                      |
| Operating Voltage        | 28VDC - 50VDC                            |
| Clamping Voltage         | 50VDC                                    |
| Max Surge Current        | 500kA (500,000 Amps)                     |
| Warranty                 | 5 years                                  |

## Installation Instructions :

- The surge protector (SPD) is designed to be installed in series between the PV panels and the controller/inverter for each string.
- Plan your installation and make sure that all electrical circuits are de-energized before attempting to install this device.
- Verify correct voltage and amperage of electrical circuit, use above or below SPD rating may cause damage.
- Mount the surge protector as close to the controller or inverter as possible. This will provide the highest amount of surge protection for those devices.
- If your PV string length is greater than 100 feet you may require additional SPDs.



- The surge protector is a bidirectional device. Either side of the device can be used as the input or output.
- Connect the input side of the device from the solar panels first followed by the output side leading towards the inverter, controller or combiner.
- Once all connections are made, verify that there are no sharp edges making contact with the wiring.
- Energize the electrical circuit and confirm that the red status light is blinking (If the status light is not blinking this could be due to low circuit voltage or no power to the electrical circuit). If you cannot remedy the issue, please contact Bad Wolf for further assistance.