

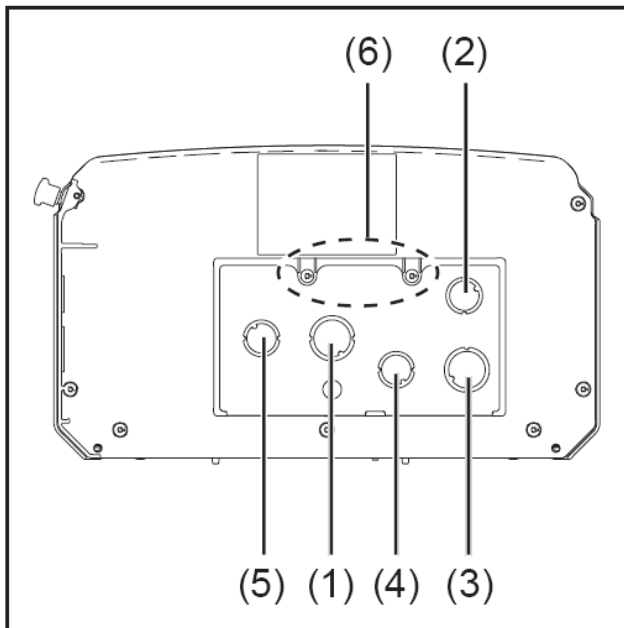


## Fighting off Zeus with properly installed lightning arrestors

By Tim McKernan, Fronius Applications Engineer

Lightning can be potentially a highly destructive force. When lightning hits a solar array or power line near your house it is making a very high voltage low current connection to earth. High Voltage has the ability to connect two points on an inverter or other equipment that should never be connected and may cause components irreversible damage. Depending on what part of the country you are living in you may have lots of lightening or required to install lightning arrestors by your P.U.C. The following article is created to help make sure that the installation of the lightning arrestor is done correctly and will help protect your equipment.

The Fronius IG Plus bottom plate is designed for the fitting of an external lighting arrester. In the pictures attached you can see the knockouts which can be used as inlet for the external component and an example of a lightning arrester from Delta. <http://www.deltasurgeprotectors.com/>.



Item	Description
1	Knockout, diameter 3/4 in./ 1 in. (e.g. for DC wire, <b>surge arrester</b> )
2	Knockout, diameter 1/2 in. / 3/4 in. (only for data wires)
3	Knockout, diameter 3/4 in./ 1 in. (e.g. for AC wire, <b>surge arrester</b> )
4	Knockout, diameter 1/2 in. / 3/4 in. (e.g. for AC wire, <b>surge arrester</b> )
5	Knockout, diameter 1/2 in. / 3/4 in. (e.g. for DC wire, <b>surge arrester</b> )





**How to install the lightning arrester at the Fronius IG Plus series:**



Use a hammer to "knock out" the specifically chosen knockout hole

1. Unscrew and remove the washer nut and washer from the Delta unit.
2. Place the Delta unit (wires first) into the bottom of the breaker box knockout hole.
3. Tighten the washer nut and washer on the Delta unit from the inside of the breaker box to properly attach the unit.

**Connecting the arrester at the connection area of the Fronius IG Plus**

