

Flexcharge™ Surge Arrester

By SES *Flexcharge* USA



Near by lighting strikes, switches, relays, and static electricity can all cause damaging spikes and surges in your electrical system. The Flexcharge Surge Arresters are completely transparent to the system until the voltage on the system reaches the breakdown voltage of the unit. Normally, high voltage surges that are dissipated by the surge arrester will not damage the surge arrester and it will continue to protect your circuit.

Using a triangulated spark gap circuit, the Flexcharge surge arresters will dissipate high voltage surges to ground before the voltage in the system reaches extreme levels. Manufactured with UL approved components, each model is designed for specific voltage protection ranges on both DC and AC systems. Install the unit near the device that you want to protect. Some systems will require more than one unit for full protection.

Model #	Description	System Voltage	Breakdown V
20240	DC Surge Arrester	12-24	60-90
20241	DC Surge Arrester	36-48	116-174
20242	AC Surge Arrester	120	225



INSTALLATION

Use the appropriate surge arrester for the voltage and AC or DC circuit.

All three wires must be connected properly for the surge arrester to operate. Follow the wiring color code on the unit label. Install the unit next to the device you want to protect. For example on the AC side of an inverter, install the surge arrester on the AC output terminals of the inverter. For solar and wind systems install a DC surge arrester just before the charge controller. In some systems that have above ground wires between the solar or wind system and the batteries, install another surge arrester near the solar or wind system.

The Green (earth ground) wire must go directly to a ground rod or ground plate. Do not connect to battery Negative.

Fuse the RED wire on all DC units and the Black wire on all AC units. This will protect the arrester if a direct short is created from a heavy surge. Check the fuse after any suspected surge.

Solder all wire to wire connections.

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