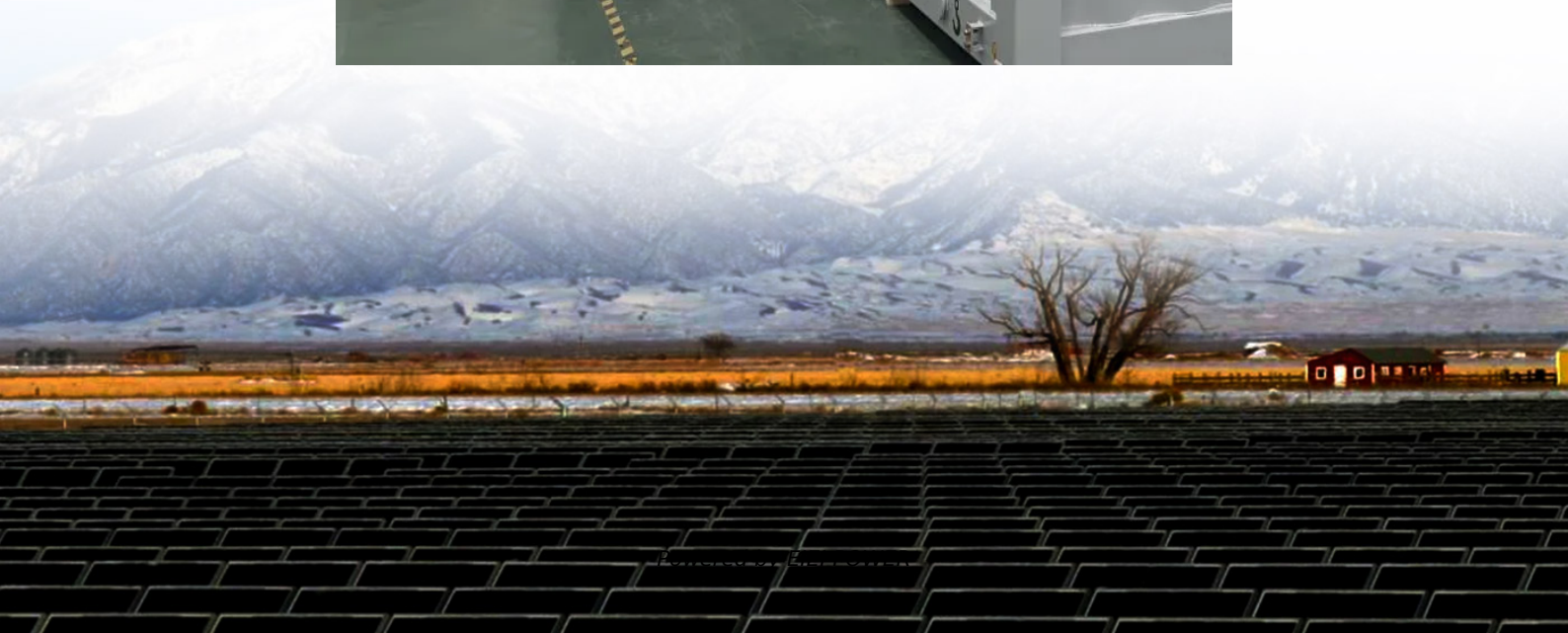


Super Farad capacitor with overcharge protection





Overview

How can a supercapacitor be charged?

Supercapacitors can be charged using various methods including constant current, constant power, constant voltage or by paralleling to an energy source, i.e. battery, fuel cell, DC converter, etc.

How do you protect a supercapacitor from overvoltage?

One simple way of protecting against reverse voltage is to add a diode across the capacitor, configured so that it is normally reverse bias. By using a suitably rated zener diode in place of a standard diode the supercapacitor can also be protected against overvoltage events.

How long should a supercapacitor be charged?

In order to get a realistic measurement of leakage or self dis-charge current the supercapacitor must be charged for in excess of 100 hours, this again is due to the capacitor construction. The supercapacitor can be modeled as several capacitors connected in parallel each with an increasing value of series resistance.

Are Eaton supercapacitors polarized?

Eaton supercapacitors are designed with symmetrical electrodes, meaning they are similar in composition. When a supercapacitor is first assembled, either electrode can be designated positive or negative. Once the supercapacitor is charged for the first time during the 100% QA testing operation, the electrodes become polarized.



Super Farad capacitor with overcharge protection



[Supercapacitor application guidelines](#)

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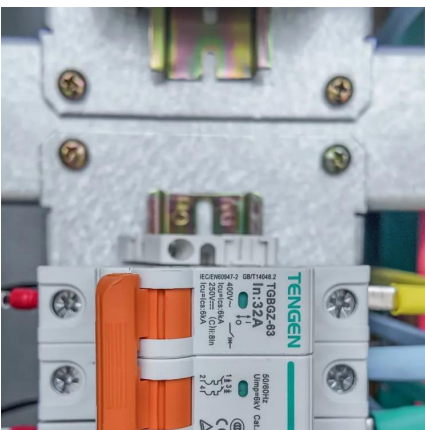
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