



WALMER ENERGY

# Super large capacitor capacity





## Overview

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What is a supercapacitor?

A supercapacitor is a specially designed capacitor which has a very large capacitance. Supercapacitors combine the properties of capacitors and batteries into one device. Supercapacitors have charge and discharge times comparable to those of ordinary capacitors.

What is the maximum charge voltage of a supercapacitor?

While an ordinary electrostatic capacitor may have a high maximum operating voltage, the typical maximum charge voltage of a supercapacitor lies between 2.5 and 2.7 volts. Supercapacitors are polar devices, meaning they have to be connected to the circuit the right way, just like electrolyte capacitors.

What makes supercapacitors different from other capacitors?

Available in a wide range of sizes, capacitance and modular configurations, supercapacitors can cost-effectively supplement and extend battery life, or in some cases, replace batteries altogether. What makes' supercapacitors different from other capacitor types are the electrodes used in these capacitors.

Why do supercapacitors have a high capacitance magnitude?

This distance is significantly shorter in supercapacitors, leading to high capacitance magnitude. Supercapacitors have their metal plates covered with porous material or nanomaterial in the form of typical carbon or activated charcoal. Static electricity is used in these capacitors to store energy.



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## Supercapacitors explained

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