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# Super Ampere Capacitor





## Overview

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What is a supercapacitor?

Also known as an ultracapacitor or Electrical Double-Layer Capacitor (EDLC), supercapacitors possess a very high capacitance value compared to other regular capacitors. These high-capacitance capacitors have low voltage limits.

What is the voltage limit of a supercapacitor?

All capacitors have voltage limits. While the electrostatic capacitor can be made to withstand high volts, the supercapacitor is confined to 2.5-2.7V. Voltages of 2.8V and higher are possible, but at a reduce service life. To get higher voltages, several supercapacitors are connected in series.

What are the types of supercapacitors?

The first type of supercapacitors are the electrostatic double layer capacitors. These supercapacitors consist of a separator, an electrolyte and two electrodes. The electrolyte is a mixture containing negative and positive ions dissolved in water. A separator separates the two electrodes of these capacitors.

How is a supercapacitor different from a regular capacitor?

The supercapacitor, also known as ultracapacitor or double-layer capacitor, differs from a regular capacitor in that it has very high capacitance. A capacitor stores energy by means of a static charge as opposed to an electrochemical reaction. Applying a voltage differential on the positive and negative plates charges the capacitor.



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