
Boston Super DC Capacitor

What are supercapacitors & EDLC?

Supercapacitors also known ultracapacitors and electric double layer capacitors (EDLC) are capacitors with capacitance values greater than any other capacitor type available today. Supercapacitors are breakthrough energy storage and delivery devices that offer millions of times more capacitance than traditional capacitors.

What are supercapacitors?

Supercapacitors (or ultracapacitors) are one of the most progressing capacitor technologies in recent years offering very high DC capacitance and high energy densities.

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.

How do you measure capacitance of a supercapacitor?

Supercapacitors have such large capacitance values that standard measuring equipment cannot be used to measure the capacity of these capacitors. Capacitance is measured per the following method: Charge capacitor for 30 minutes at rated voltage. Discharge capacitor through a constant current load.

A capacitor with capacitance $C = 50 \text{ F}$ is charged from $V_0 = 0.3 \text{ V}$ to its rated voltage $V_R = 2.7 \text{ V}$ with a constant current $I_C = 2 \text{ A}$. How long is the charging process?

This article is part of The engineer's complete guide to capacitors. If you're unsure of what type of capacitor is best for your circuit, read How to choose the right capacitor for any ...

A leading Manufacturer of high-quality capacitors, Cornell Dubilier serves companies in the power electronics industry with the goal of collaborating with them to energize ideas by arriving at the ...

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The diffuse layer somewhat supports the capacitor's total capacitance, it also produces an internal resistance that degrades performance. The thickness of this diffuse layer ...

Calculation of the required energy capacity based on the expected power demand. Determination of the required capacitance C in accordance to the specification of the load ...

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