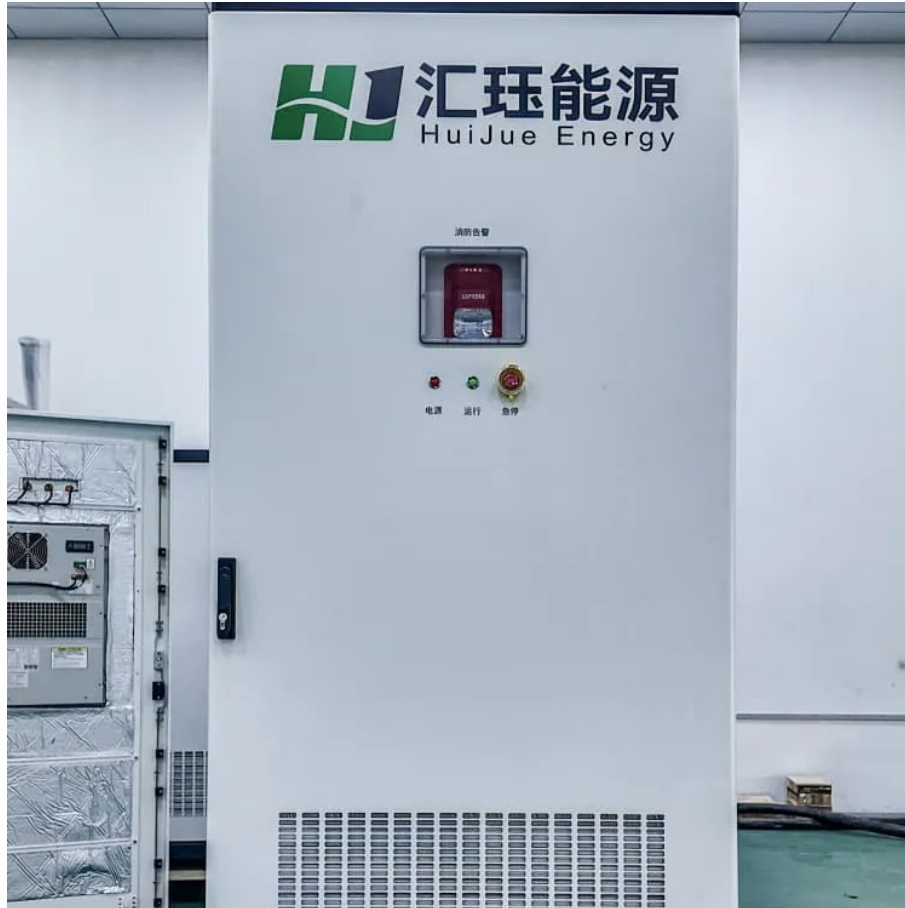




Supercapacitor switching price





Overview

Energy Density: High-density models (e.g., 50 Wh/kg) typically cost \$2,500–\$5,000 per kWh, while standard versions range from \$1,800–\$3,200. Lifespan: Units rated for 1 million cycles often carry a 15–25% price premium over 500,000-cycle alternatives.

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While lithium-ion batteries dominate headlines, supercapacitor cost per kWh has emerged as a critical metric for industries demanding rapid charge-discharge cycles and extreme durability. In 2023, the average supercapacitor energy storage system ranged between \$3,000–\$5,000 per kWh – significantly.

In 2025, we're seeing jaw-dropping figures like \$0.056/Wh for supercapacitor cells [4] and \$0.426/Wh for full systems [8]. But wait—there's more to this story than just numbers. Let's cut to the chase. Here's why your 2024 budget sheet needs an update: Fun fact: At these prices, storing 1 kWh of.

Why do supercapacitor prices vary so widely?

The answer lies in these critical components: Material Costs: Advanced materials like graphene or carbon nanotubes can drive prices up by 20–40% compared to traditional options. Production Scale: Mass-produced supercapacitors cost 30–50% less per unit.

The costs of supercapacitors are tabulated in this data-file, with a typical system storing 15-seconds of electricity, for a capex cost around \$10,000/kWh of energy but just \$40/kW of power. Hence, for short-duration, but very frequent and fast-acting voltage regulation, supercapacitors may be.

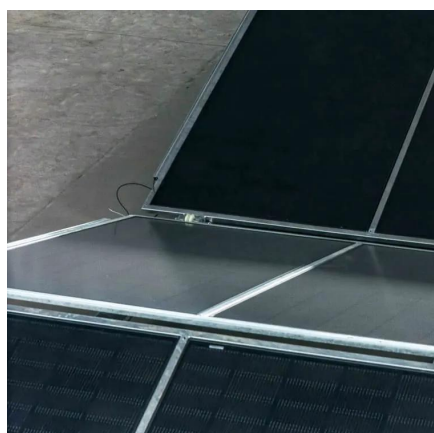
Pricing (USD) Filter the results in the table by unit price based on your quantity. Pricing (USD) Filter the results in the table by unit price based on your quantity. A tariff of 55 % may be applied if shipping to the United States. A tariff of 55 % may be applied if shipping to the United States.



The price of a supercapacitor depends on several factors including type, capacitance (farads), voltage rating, materials used, and application-specific design. Below is a detailed breakdown of the most common types of supercapacitors, their technical characteristics, and typical bulk pricing per.



Supercapacitor switching price



Understanding the Price of Supercapacitor Energy Storage in ...

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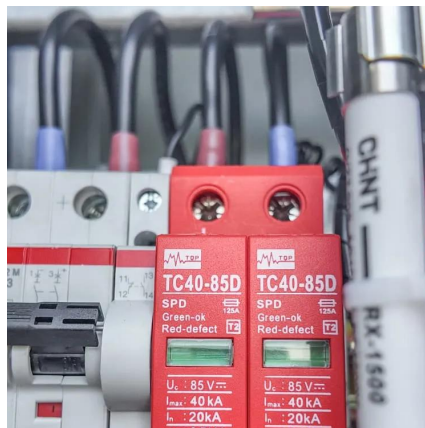
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