



Supercapacitor average price





Overview

In 2023, the average supercapacitor energy storage system ranged between \$3,000-\$5,000 per kWh – significantly higher than traditional batteries. But why does this gap exist, and when will it close?

Unlike batteries that rely on chemical reactions, supercapacitors store energy.

In 2023, the average supercapacitor energy storage system ranged between \$3,000-\$5,000 per kWh – significantly higher than traditional batteries. But why does this gap exist, and when will it close?

Unlike batteries that rely on chemical reactions, supercapacitors store energy.

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.

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.

The Supercapacitors Market Report is Segmented by Configuration (Type) (Electric Double-Layer Capacitors (EDLC), Pseudo Capacitors, and Hybrid Supercapacitors), Form Factor (Cell, Module, and Pack), Mounting Type (Discrete Components) (Surface-Mount, Radial Leaded, Snap-In, and More), End-User.

This report is available at no cost from the National Renewable Energy Laboratory (NREL) at Roy, Pranoy Kumar Singha, H. Bora Karayaka, JiangBiao He, and Yi-Hsiang Yu. 2021. Economic Comparison Between a Battery and Supercapacitor for Hourly Dispatching Wave Energy.

If you're researching energy storage for renewables, electric vehicles, or industrial applications, you've likely asked: "How much does a supercapacitor energy storage system cost per unit?"



” Spoiler alert: prices have dropped like a Tesla’s 0-60 mph time. In 2025, we’re seeing jaw-dropping figures.

The global supercapacitor market is projected to grow from USD 1.35 billion in 2025 to USD 2.84 billion by 2030, at a CAGR of 16.1%. Growth is driven by adoption of automotive, consumer electronics, renewable energy, and industrial automation. With high power density, fast charge-discharge, and.



Supercapacitor average price



Supercapacitor Cost per kWh: Breaking Down the Economics of ...

In 2023, the average supercapacitor energy storage system ranged between \$3,000-\$5,000 per kWh - significantly higher than traditional batteries. But why does this gap exist, and when will ...

Supercapacitor Market Size, Share, Trends and Growth Analysis ...

The supercapacitor market is segmented into <100 F, 100-1,000 F, and >1,000 F categories. Supercapacitors below 100 F are widely used in devices needing rapid energy discharge with ...



Technology Strategy Assessment

A subgroup of the authors of this report worked individually with 15 subject matter experts (SMEs) to understand the supercapacitor innovations that are currently being investigated, cost ...



Supercapacitors Market Size, Share , Global Report [2024-2032]

The global supercapacitors market size was valued at USD 2.38 billion in 2024. The market is projected to grow from USD 2.78 billion in 2025 to



USD 9.57 billion by 2032, ...



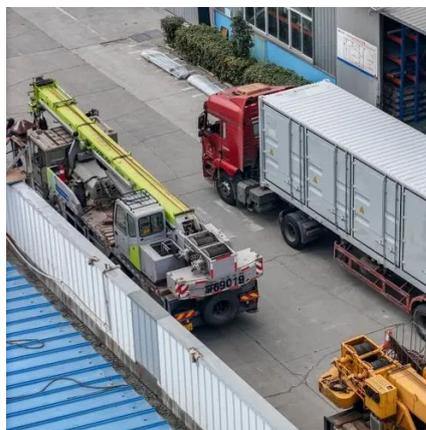
[Supercapacitor Market Size, Growth & Industry Trends , 2025](#)

Supercapacitors can be of various types, such as double-layer, pseudo, and hybrid capacitors. They can be used for different end-user industries, such as consumer electronics, ...



Supercapacitors: the economics?

Costs of supercapacitors storing 15-seconds of electricity average \$10,000/kWh, but just \$40/kW in power terms. Economics are in this model.



Deye inverters and Deye batteries are more compatible.

Supercapacitor Energy Storage System Unit Price: What You ...

If you're researching energy storage for renewables, electric vehicles, or industrial applications, you've likely asked: "How much does a supercapacitor energy storage system ...



[Supercapacitor Market Size, Share, and Trends Analysis 2032](#)

Supercapacitors, also known as ultracapacitors, provide high power density, rapid charge/discharge cycles, and long lifespans, making them ideal for applications in consumer ...



Supercapacitor Supplier Price List: 2024 Market Trends & Cost ...

Looking for reliable supercapacitor suppliers with competitive pricing? This guide breaks down current market trends, price factors, and key considerations for industrial buyers.



Supercapacitors: the economics?

Costs of supercapacitors storing 15-seconds of electricity average \$10,000/kWh, but just \$40/kW in power terms. Economics are in ...



[Economic Comparison Between a Battery and ...](#)

The cost associated with the battery or SC energy storage system primarily depends on two aspects: (i) lifetime of the ESS, and (ii) minimum capacity required of the ESS. The service life ...



Supercapacitor Market Size, Share, Trends and ...

The supercapacitor market is segmented into <100 F, 100-1,000 F, and >1,000 F categories. Supercapacitors below 100 F are widely used in ...





Contact Us

For inquiries, pricing, or partnerships:

<https://www.sccd-sk.eu>

Phone: +32 2 808 71 94

Email: info@sccd-sk.eu

Scan QR code for WhatsApp.

