



Price of lithium supercapacitor





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.

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The global Lithium Supercapacitor market is experiencing robust expansion, projected to reach approximately \$2,500 million by 2025 and sustain a Compound Annual Growth Rate (CAGR) of around 22% through 2033. This impressive growth is primarily fueled by the escalating demand for high-power.

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 growth of the worldwide lithium-ion supercapacitor market is significantly driven by various factors that intertwine technological advancements, environmental regulations, and increasing demand across multiple sectors. A notable factor propelling this market is the rising demand for energy.

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.

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.

Price-Watch’s most active coverage of Lithium price assessment: In Q3 2025, the worldwide Lithium Metal market experienced a slight contraction, with overall lithium prices declining approximately 0.24% quarter-quarter. The slight pullback in pricing has primarily been attributed to weaker battery. How much does a supercapacitor cost?

The capex costs of supercapacitors are contrasted with the costs of lithium ion batteries and the costs of flywheels in the chart below. A typical supercapacitor stores about 15 seconds of energy, for a capex cost of \$10,000/kWh, but just \$40/kW of power.

Are supercapacitors better than lithium ion batteries?

Hence, for short-duration, but very frequent and fast-acting voltage regulation, supercapacitors may be highly competitive with lithium ion batteries and flywheels. Numbers can be stress-tested in this model.

How much does a supercapacitor energy storage system cost?

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?

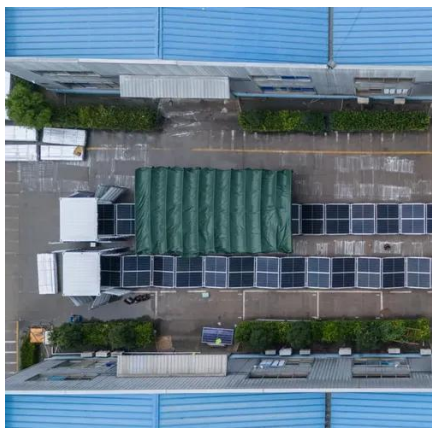
Unlike batteries that rely on chemical reactions, supercapacitors store energy electrostatically.

What are the different types of supercapacitor market?

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 minimal maintenance.



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Worldwide Lithium-ion Supercapacitor Market Research Report ...

The growth of the worldwide lithium-ion supercapacitor market is significantly driven by various factors that intertwine technological advancements, environmental regulations, and increasing ...

Lithium Supercapacitor Comprehensive Market Study: Trends ...

This report provides an in-depth analysis of the Lithium Supercapacitor market, encompassing its current landscape, future projections, and key influencing factors.



Lithium-ion battery cell price

Lithium-ion battery cell price Average price of battery cells per kilowatt-hour in US dollars, not adjusted for inflation. The data includes an annual average and quarterly average ...



Lithium Supercapacitor

This report aims to provide a comprehensive presentation of the global market for Lithium Supercapacitor, focusing on the total sales volume, sales revenue, price, key companies ...



Lithium Price Trends, Spot Prices, Index, Forecast And Chart

Lithium metal price trend analysis with weekly real time pricing forecasts, outlook, market trends, historical data and spot prices.



Supercapacitors: the economics?

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

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.



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 ...



[Lithium Supercapacitor Comprehensive Market ...](#)

This report provides an in-depth analysis of the Lithium Supercapacitor market, encompassing its current landscape, future ...



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

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 ...



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.





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