



# Supercapacitor and ordinary battery prices





## Overview

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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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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.

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.

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.

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.

Battery and supercapacitor are often compared together because they are usually used as energy storage components, but there are many differences in key



parameters of energy storage and battery management systems. This article makes a detailed comparison between supercapacitor vs battery, and how.

Looking for reliable supercapacitor suppliers with competitive pricing?

This guide breaks down current market trends, price factors, and key considerations for industrial buyers. Whether you're in renewable energy, automotive, or grid storage, discover how to optimize your procur Looking for.



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### [Understanding Supercapacitors and Batteries , DigiKey](#)

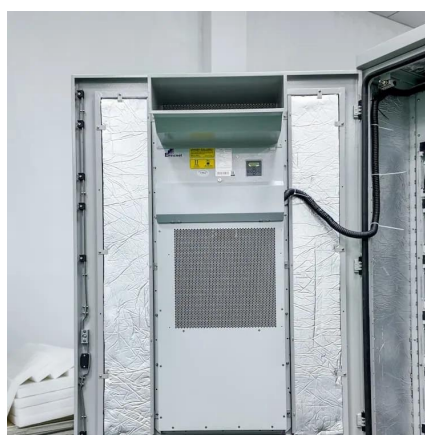
Electric double-layer capacitors (EDLC), or supercapacitors, offer a complementary technology to batteries. Where batteries can supply power for relatively long ...

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### Supercapacitors: the economics?

The capex costs of supercapacitors are contrasted with the costs of lithium ion batteries and the costs of flywheels in the chart below. ...

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### Supercapacitor Cost: Breaking Down Barriers for Energy Storage

The answer often circles back to supercapacitor cost. While prices have dropped 40% since 2018, a typical 3,000F supercapacitor module still costs \$150-\$300 - significantly higher than ...

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## Supercapacitors: the economics?

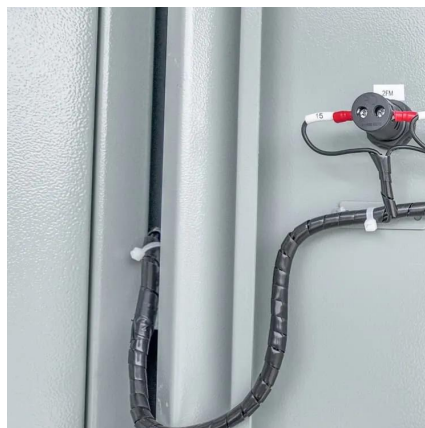
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## [The major differences between supercapacitors and batteries](#)

This fundamental difference in the inner workings of these two storage technologies leads to significant functional differences in performance. This whitepaper outlines the key differences ...

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## Supercapacitor vs battery



The Difference Between The Working Principle of Supercapacitor vs Battery  
 Supercapacitor vs Battery - Differences in Energy Storage Applications  
 Supercapacitor vs Battery - How to Choose in Different Scenarios  
 Conclusion  
 Supercapacitor vs battery, they are both electrical energy storage systems. Lithium-ion batteries rely on chemical reactions and consist of cathode and anode. These two sides are submerged in a liquid electrolyte and separated by a microporous separator that allows only ions to pass through. During charging an...  
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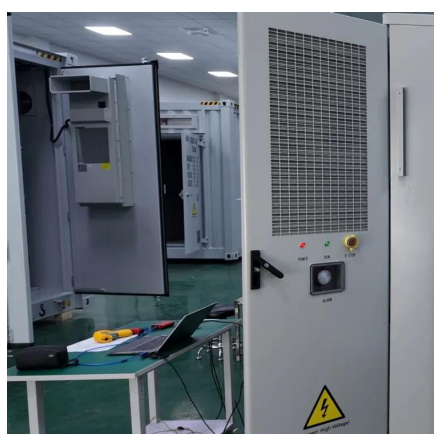
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## Supercapacitors vs. Batteries: A Comparison in Energy Storage ...

Explore the key differences between supercapacitors and batteries in terms of power density, efficiency, lifespan, temperature range and sustainability.

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## Supercapacitor vs battery

This article makes a detailed comparison between supercapacitor vs battery, and how to choose them in different application scenarios.

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