

# Price of sodium-ion batteries for electric vehicle solar container

<div class="df\_qntext">Who makes sodium ion batteries?

Contemporary Ampere Technology Co. Limited (CATL), a global leader in battery technology, has made significant strides in sodium-ion batteries. In 2025, CATL unveiled the Naxtra Sodium-ion Battery platform, officially bringing lithium-free energy storage solutions into mass production.

<div class="df\_qntext">When will a sodium ion battery come out?

Heavy-duty truck batteries will enter production in June 2025, while sodium-ion batteries for passenger EVs will roll out in December 2025. This timeline positions CATL as the industry's first to achieve Sodium-ion Battery commercialization at scale. The Naxtra portfolio introduces two key products:

<div class="df\_qntext">Are sodium-ion batteries good for EVs?

Sodium-ion batteries are particularly attractive for entry-level EVs due to their affordability, safety, and environmental benefits. Sodium, the primary material in these batteries, is both abundant and cost-effective. Comparing costs, sodium is priced at just \$0.05 per kilogram, significantly lower than lithium's average price of \$15 per kilogram.

<div class="df\_qntext">Are sodium ion batteries a viable alternative to lithium-ion?

Sodium-ion batteries, developed by CATL, are a sustainable alternative to lithium-ion technology. They offer lower costs, inherent safety, and suitability for EVs and renewable energy systems. With a potential cost reduction to \$10/kWh, sodium-ion batteries use sodium's abundance and safety to address energy storage challenges.

<div class="df\_qntext">What are sodium ion batteries?

Sodium-ion batteries are a type of battery that uses sodium as its main component instead of lithium. Unlike lithium, which is relatively scarce and expensive, sodium is derived from common salt, making sodium-ion batteries more sustainable and cost-effective.

<div class="df\_qntext">Why are sodium ion batteries cheaper than lithium-ion?

Namely, sodium-ion's lower cost mainly comes from abundant sodium and low extraction and purification costs. Sodium-ion batteries could potentially use aluminum for the anode current collector instead of copper - which is used in lithium-ion - additionally reducing costs and supply chain risks. Further modifications are also possible.

Sodium-ion batteries (SIBs) are emerging as a viable alternative to lithium-ion batteries (LIBs) due to their cost-effectiveness, abundance of sodium resources, and lower environmental ...

The sodium-ion battery market is experiencing unprecedented momentum as industries worldwide seek

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sustainable, cost-effective alternatives to traditional lithium-ion technology.

Today's battery technologies are dominated by lithium ion batteries (LIBs) and lead acid batteries. While LIBs do well to serve emerging markets in electric vehicle and portable ...

Sodium-based systems, such as sodium-sulfur batteries, exhibit remarkable stability and efficiency in sustaining desired charge levels, starting from the control of SoC. Lithium-based ...

Due to the wide availability and low cost of sodium resources, sodium-ion batteries (SIBs) are regarded as a promising alternative for next-generation large-scale EES systems.

What's Currently Happening in Sodium-Ion Batteries? 2025 Sodium-ion batteries have gained significant attention in 2025 as the push for cost-effective and sustainable energy storage ...

Sodium is abundant and inexpensive, sodium-ion batteries (SIBs) have become a viable substitute for Lithium-ion batteries (LIBs). For applications including electric vehicles (EVs), ...

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