Sodium bromide energy storage battery

Overview

These batteries are used for renewables integration, grid solutions, long-duration storage, backup power, microgrids, and spinning reserve applications for industrial, commercial, and residential consumers. While CATL has been making sodium-ion batteries for some time, production commitment has increased dramatically in 2026. CATL introduced its Naxtra line of batteries earlier in 2025 and has now announced plans for volume production of sodium-ion batteries this year, with integration into production. CATL says the battery delivers triple LFP power at –30°C, keeps over 90% range at –40°C, and stays stable down to –50°C. The new Naxtra battery will be installed in Changan EVs this week for winter testing in northern China's Inner Mongolia region. A key benefit of sodium-ion is its reliance on soda ash, an. The Chinese battery industry appears to be accelerating its development of sodium-ion batteries, which can replace lithium-ion batteries in certain applications owing to advantages such as lower manufacturing costs, more abundant raw material resources, better low-temperature performance, and.

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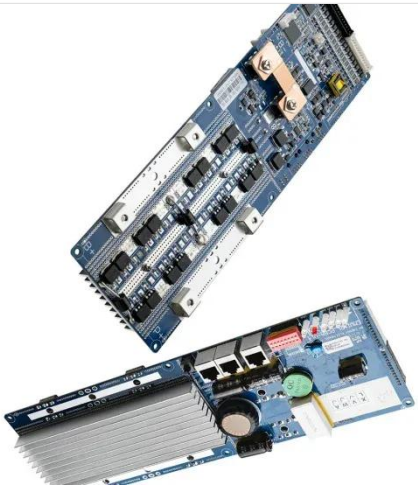
Why Sodium-Ion Batteries Are Happening Now

While some applications like energy storage have switched to LFP, until now sodium-ion batteries have not been produced at the same volume levels. The question is, why?

Technology Strategy Assessment

This technology strategy assessment on sodium batteries, released as part of the Long-Duration Storage Shot, contains the findings from the Storage Innovations (SI) 2030 strategic initiative.



CATL unveil world's first sodium-ion EV with about 248-mile range

China unveils world's first sodium-ion battery-powered EV with 248-mile range CATL says the battery delivers triple LFP power at -30°C, keeps over 90% range at -40°C, and stays ...

Sodium Batteries for Use in Grid-Storage Systems and Electric Vehicles

Sodium batteries have emerged as a potential alternative to lithium-ion batteries as a result of the abundance and low cost of soda ash. However, the development of these batteries is ...

Scientists create new solid-state sodium-ion battery -- they say ...

A new sodium-ion battery offers a cheaper and safer alternative to conventional lithium-ion systems, scientists say, paving the way for more sustainable EVs.

Advancements in sodium-ion batteries technology: A comprehensive ...

In conclusion, while challenges remain, SIBs are poised to become a key technology for sustainable energy storage, with ongoing research and development paving the way for their ...

Can Sodium Bromide Liquid be used in the battery industry?

Sodium Bromide - based batteries could be integrated with renewable energy systems to store excess energy generated during peak production periods and release it when needed.

Sodium Ion Batteries and Lithium Ion Market Outlook , Argus Media

Explore how sodium ion batteries are emerging as a rival to lithium ion batteries, driven by advances in battery technology, China's battery industry and lithium carbonate prices.

China Announces Sodium-Ion Battery Procurement at $150/kWh

China has officially announced the procurement of sodium-ion batteries, setting a price ceiling at $150/kWh. This exciting development comes alongside the construction of a ...

Next-generation anodes for high-energy and low-cost sodium-ion

Sodium-ion batteries are promising low-cost alternatives to lithium-ion systems yet limited by underperforming anodes. This Review highlights advances and challenges in hard carbon and ...

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