

Five battery packs lithium batteries





Overview

Could sodium ion batteries replace lithium phosphate batteries?

The new Naxtra battery boasts an energy density of 175 watt-hours per kilogram, nearly matching the widely used lithium iron phosphate batteries. CATL's founder, Robin Zeng, has suggested that sodium-ion batteries could eventually replace up to half of the market for lithium iron phosphate batteries, which the company currently dominates.

How long does a CATL LFP battery last?

CATL's second-gen Shenxing LFP battery can deliver a range of 497 miles on a single charge and is capable of charging at a rate of 12C. For reference, a rate of 1C translates into one hour of charging time, whereas 2C is 30 minutes.

Which EV battery is best for cold weather?

It also announced the "Freevoy Dual Power Battery," which combines two packs for a whopping 932-mile range. And finally, a world first: a sodium-ion EV battery, aimed at better cold weather performance and diversifying beyond lithium.

Could a lithium-ion battery power a 180 kWh EV?

Although there was little in the way of real-world examples at the firm's recent Tech Day in Shanghai, CATL stated that two lithium-ion units with nickel-manganese-cobalt (NMC) cathodes could potentially offer a capacity of 180kWh - far eclipsing the 100 or so kWh touted by today's costliest EVs.



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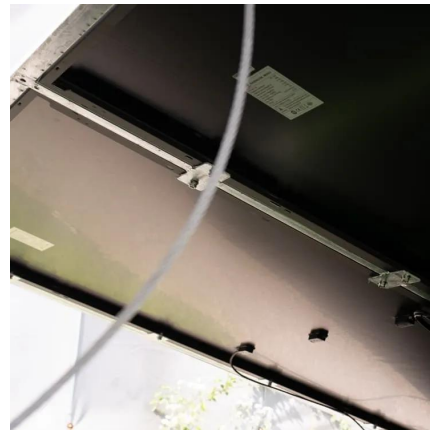


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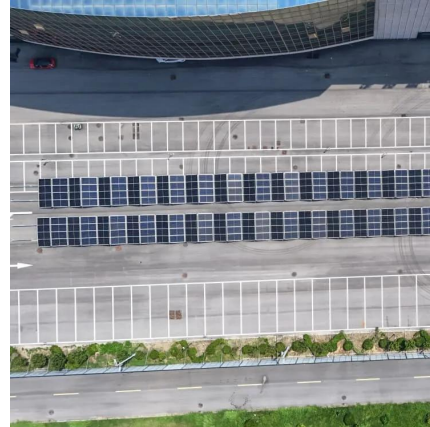
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CATL Next Gen Batteries Coming Soon To An EV Near You!

Apr 21, 2025 · It became the first major automotive battery maker to launch sodium-ion batteries in 2021. Unlike lithium, sodium is cheap and abundant, which could lower the cost of electric cars.



Introduction: What Is a Lithium-Ion Battery Pack?

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