

Will BYD use solid-state batteries in electric vehicles?

18. February 2025 Chinese automaker BYD has announced plans to deploy solid-state batteries in electric vehicles in a pilot phase starting in 2027. Primarily for cost and process stability reasons, the company will use sulfide-based electrolytes.

Is BYD betting on solid-state batteries?

It is worth noting that BYD is not the only automaker betting on solid-state batteries. Globally, companies including Toyota, Volkswagen, BMW, CATL and others are actively laying out solid-state battery technologies. Among them, Toyota started relevant research on solid-state batteries as early as 2008.

When did BYD start making solid-state batteries?

BYD began researching solid-state batteries in 2013 and validated the technical feasibility in 2016 with small prototypes of less than one ampere-hour in capacity. By 2023, the company had developed industrial manufacturing processes and materials. Since 2024, BYD has been producing test cells with capacities of 20 and 60 ampere-hours.

What is a solid-state battery?

"Solid-state batteries will be mainly used in high-end models, empowering each other with lithium iron phosphate batteries, and used in vehicles of different levels."

Are solid-state batteries the future of EV batteries?

Solid-state batteries with a longer EV driving range, smaller size and safer performance are considered the main development direction for the next generation of power batteries, but there are several challenges restricting mass production, particularly significantly higher costs.

Will sulfide solid-state batteries be the next generation?

Earlier in September last year, Sun indicated that he would continue to strengthen the research and development (R&D) of the next generation of batteries, such as solid-state batteries and new materials, with "sulfide solid-state batteries being one of the directions."

According to Sun, BYD expects its first EVs with all-solid-state batteries to arrive in 2027. The first two years, between 2027 and 2029, will serve as a demonstration phase with ...

Between 2027 and 2029, BYD plans to use the new battery technology in a limited production demonstration phase. It expects large-scale adoption and mass production ...

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Explore BYD's solid - state battery development roadmap from 2024 pilot production to 2030 mass - scale application, highlighting 400Wh/kg energy density and 10,000 ...

BYD is also researching solid-state batteries: As early as 2024, BYD has manufactured the first 60Ah solid-state batteries from pilot production. By 2027, they plan to begin installing a large pilot series.

The rollout of electric vehicle (EV) solid-state batteries has been given a clearer timeline after China's largest EV producer BYD unveiled plans to launch massive production of such vehicles ...

Eventually, BYD expects solid-state batteries to cost about the same as current lithium-ion packs, making them a real alternative across its lineup. That doesn't mean traditional battery tech is ...

BYD confirms plans to launch its first all-solid-state battery EVs in 2027, with mass production set for 2030. Featuring higher energy density, faster charging, and enhanced safety, these next-gen batteries could transform ...

In a recent announcement that has captured the attention of the global automotive and tech industries, BYD, China's electric vehicle (EV) giant, revealed its ambitious plans to launch the first EVs powered by all-solid-state batteries ...

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