



Byd solid state battery testing

Does BYD still make solid-state batteries?

Even after it begins producing solid-state batteries, however, BYD plans to continue offering LFP batteries as a lower-cost option. BYD will compete with CATL, Mercedes-Benz, Volkswagen, Stellantis, Nissan, and several others that are also aiming to launch their first EVs with solid-state batteries around 2027 or 2028.

Is BYD testing SSB batteries?

BYD, one of the world's leading battery manufacturers, is already testing a production-ready SSB in its Seal sedan. This comes after it announced, in 2024, a milestone by testing the first SSB cells with capacities of 20 Ah and 60 Ah.

What is a solid-state battery?

Solid-state batteries are regarded as the next-generation technology of liquid battery. Their core advantage lies in the fact that they use solid electrolytes to replace traditional liquid electrolytes, thus solving the safety hazards of flammability and explosiveness of liquid batteries.

How do solid-state batteries differ from liquid electrolyte-based batteries?

Solid-state batteries differ significantly from conventional liquid electrolyte-based batteries by replacing the flammable liquid with a solid electrolyte, offering higher energy density and reduced fire hazards.

How much does a solid state battery cost?

The manufacturing cost of solid-state batteries is much higher than that of traditional liquid batteries. Currently, the material cost of all-solid-state battery is as high as 400-500 US dollars/kWh, which is 3 to 5 times that of liquid battery.

Will all-solid-state batteries replace liquid batteries?

After 2030: All-solid-state batteries will fully replace liquid batteries. After the release of large-scale production capacity, BYD plans to simultaneously launch the transformation of production lines at bases in Hefei, Xi'an, etc., with the goal of achieving a global shipment volume of 556GWh.

On February 15 at the second China All-Solid-State Battery Innovation and Development Summit Forum, Sun Huajun - CTO of the Shenzhen BYD Lithium Battery Co., Ltd., revealed that BYD has rolled off 60Ah all-solid-state batteries ...

BYD plans to begin its first all-solid-state battery EV production in 2027, but this will be a limited rollout. During the first two years (2027-2029), the company aims to use these batteries primarily in higher-end, luxury vehicles.

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