



Blade battery outdoor energy storage principle video

Are blade batteries safe?

Safety has been a defining feature of Blade Battery technology. BYD's infamous nail penetration test, which causes conventional lithium-ion batteries to catch fire or explode, had no effect on the original Blade Battery. The new lithium-free version passed this test even more decisively, remaining cool and stable.

Can BYD make a blade battery?

Factories in Xi'an and Changsha are being expanded to handle mass production. BYD aims to manufacture over 10 GWh of lithium-free Blade Batteries by the end of 2026. For consumers, the shift means more than environmental relief. It promises: The Blade Battery is no longer just a BYD advantage--it's fast becoming a global benchmark.

What is a blade battery?

The blade battery is most commonly a 96 centimetres (37.8 in) long and 9 centimetres (3.5 in) wide single-cell battery with a special design, which can be placed in an array and inserted into a battery pack like a blade. It is made in various lengths and thicknesses.

What is BYD's new blade battery?

BYD plans to deploy the new Blade Battery in both consumer and commercial vehicles, including its growing electric bus division. By eliminating lithium, cobalt, and nickel--other high-impact materials--BYD's battery drastically reduces the environmental toll of production.

Can a blade battery be overcharged?

The blade battery also passed other extreme test conditions, such as being crushed and bent, being heated in a furnace to 300 °C (572 °F), and being overcharged by 260%. None of these resulted in a fire or explosion.



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Web: <https://www.solarcomplete.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

