

Why is blade battery a patented technology

Why do we need blade batteries?

Blade batteries cannot achieve higher energy density in battery materials, but they have made breakthroughs in battery system integration. This solves the shortcomings of short battery life of lithium iron phosphate batteries. This is the background for the birth of blade batteries. Part 3. BYD blade battery specifications Part 4.

Why is BYD's blade battery revolutionary?

BYD's blade battery is revolutionary in several ways. We are happy to explain why this is the case, as well as the importance of the so-called Nail Penetration Test. One of the most important parts of an electric vehicle is the battery system. After years of study, research and development, BYD has come up with the Blade Battery.

What is a BYD blade battery?

The blade battery was officially launched by BYD in 2020. BYD claims that compared with ternary lithium batteries and traditional lithium iron phosphate batteries, the blade battery holds advantages in safety, range, longevity, strength and power.

Why do all BYD cars have a blade battery?

This improves energy density and allows more batteries in a compact space, with a longer driving range. The 'honeycomb-like aluminum' design of the Blade Battery also provides greater rigidity and safety. The BYD TANG, BYD HAN and BYD ATTO 3 are all equipped with a Blade Battery.

What is blade battery?

Blade Battery can change the size of the battery pack in the X and Y directions according to the vehicle space, and develop batteries of different specifications. This platform-based battery effectively reduces development costs and time.

What are the advantages and disadvantages of blade batteries?

Another advantage of blade batteries is that they have good heat dissipation performance. We all know that batteries are particularly sensitive to temperature, which is also the main reason that limits battery fast charging time. Therefore, heat dissipation is a very important indicator for battery cells.

BYD's Blade Battery, set to mitigate concerns about battery safety in EV, is a significant innovation in the electric vehicle (EV) industry. In a striking demonstration, BYD showcased the Blade Battery enduring the ...

This unique design allows the Blade Battery cells to be directly arranged into battery packs, with the battery cover serving as part of the vehicle's chassis. As a result, more batteries can be ...

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While undergoing nail penetration tests, Blade Battery emits neither smoke nor fire after being penetrated, and its surface temperature only reaches 30 to 60°C. ... Patent: Stacking ...

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The Blade Battery is a lithium iron phosphate (LiFePO₄) battery developed by BYD, primarily for use in electric vehicles. Introduced in 2020, the Blade Battery represents a ...

The Blade Battery is the result of over 28 years of BYD's experience in developing rechargeable batteries. This technology has been a game-changer in the electric ...

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The driving force of each of our electric cars is the innovative BYD Blade Battery. Recognised as one of the world's safest EV batteries, our battery has passed rigorous safety tests and is designed to maximise strength, range and life cycle.

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