

Blade battery housing technology

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.

What are the benefits of a blade battery?

Efficiency and extended range are other benefits of the Blade Battery, offering greater power density for optimal performance and efficiency, including faster charging. BYD CTP (Cell to Pack) technology makes the difference, with the Blade Battery increasing space utilization by 50%.

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 a blade battery?

Another unique selling point of the blade battery - which actually looks like a blade- is that it uses lithium iron-phosphate (LFP) as the cathode material, which offers a much higher level of safety than conventional lithium-ion batteries. LFP naturally has excellent thermal stability and is substantially cobalt free.

How does blade battery technology impact the environment?

The adoption of Blade Battery technology has far-reaching implications for the environment. As governments and industries worldwide strive to reduce greenhouse gas emissions and combat climate change, electric vehicles represent a sustainable alternative to traditional combustion engine vehicles.

What is a blade battery EV?

Diverse applications of Blade Battery Electric Vehicles (EVs): Blade Battery technology can be employed in electric vehicles, offering enhanced safety, increased energy density, and longer lifespan compared to traditional lithium-ion batteries. It enables the production of safer and more efficient electric cars with longer driving ranges .

The BYD Blade battery technology was under development for several years, at least since 2017. Bloomberg reported on October 17, 2024, that Apple engineers ...

The BDU and BMS [battery disconnect unit and battery management system] are included; we do the integration," he said. BYD uses the Blade battery in its new-for-2021 Tang electric SUV and in its Han EV sedan, ...



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The development of blade battery technology aligns with the broader goals of the EV industry, including reducing greenhouse gas emissions, combating climate change, and achieving ...

The BYD blade battery is a lithium iron phosphate (LFP) battery for electric vehicles, designed and manufactured by FinDreams Battery, a subsidiary of Chinese manufacturing company BYD. 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 b...

The module-free Blade Battery, however, takes advantage of its blade cells to increase the volumetric energy density by up to 50%, suggesting a potential VCTPR and GCTPR of 62.4% and 84.5% ...

Blade Battery technology represents a paradigm shift in energy storage for electric vehicles. Unlike traditional lithium-ion batteries, which are cylindrical or prismatic in ...

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Blade Battery technology represents a paradigm shift in energy storage for electric vehicles. Unlike traditional lithium-ion batteries, which are cylindrical or prismatic in shape, Blade Batteries are flat and rectangular.

With cell-to-pack technology, BYD designed the module-free battery pack using the Blade Cell. The geometry of the Blade Cell is a key to the realization of the module ...

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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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