New Energy Technology Explains Blade Batteries

What is a 'blade' battery?

The Chinese mobility giant's novel 'Blade' battery eliminates the cell module level to compete with NCM chemistry at a lower cost with greater safety. BYD integrates the Blade battery's BDU and BMS into the pack. (BYD) If I buy an electric vehicle,will its battery catch fire? Statistically such considerations are almost irrelevant.

Why should you choose a blade battery?

The space utilisation of the Blade Battery has been increased by over 50% compared with the traditional battery packs,which provides enhanced energy density and delivers longer range. Blade Battery has a long battery lifewith over 5000 charge and discharge cycles.

How long does a blade battery last?

Blade Battery has a long battery life with over 5000charge and discharge cycles. With a range of EV and PHEV to choose from,whether that's fully electric or hybrid options,new energy vehicles give drivers the option to reduce their carbon footprint in a way that suits their lifestyle.

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 .

What is the difference between a module and a blade battery?

The height of the Blade Battery is reduced by ~50 mm,compared with regular LFP battery back with modules,providing more space to the passengers and decreasing the coefficient of drag (0.233 cd for BYD Han). In the Z direction,the structureof the Blade Battery is completely different from conventional module-based battery packs (Figure 3).

How does a blade battery work?

Arranged in an array in one pack,each cell serves as a structural beam to help withstand the force. The aluminum honeycomb-like structure,with high-strength panels on upper and lower side of the pack,greatly enhances the rigidity in vertical direction. It is this revolutionary design that gives optimised strength to the Blade Battery.

In the previous article, we described the concept, specifications, pros and cons of the BYD Blade Battery from cell level. Here, we explain how this novel design is realized in the module-free battery using cell ...

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China"s electric vehicle manufacturer BYD has announced its intentions to release its new Blade battery design in 2025.

4 ???· The Blade Battery 2.0 from BYD is not just an incremental update but a leap in ...

4 ???· The Blade Battery 2.0 from BYD is not just an incremental update but a leap in battery technology. With an energy density of up to 210 Wh/kg, it far surpasses its predecessor, which ...

The module-free Blade Battery, however, takes advantage of its blade cells to increase the volumetric energy density by up to 50%, ...

Today, BYD officially announced the launch of the Blade Battery, a development set to mitigate concerns about battery safety in electric vehicles. At an online launch event themed "The Blade Battery - Unsheathed to Safeguard the ...

This allows the blade battery to save 10~20mm in height compared to batteries of the same specification. BYD"s blade battery height design goals are 105mm for passenger cars and 120mm for SUVs. Part 6. ...

Blade Battery has a long battery life with over 5000 charge and discharge cycles. With a range of EV and PHEV to choose from, whether that"s fully electric or hybrid options, new energy ...

4.1. The Advantages of Blade Battery over Other Batteries in Technologies The reason why blade battery is used is that it has its advantages in technology. Firstly, the blade battery greatly ...

6 ???· A source close to the matter told CarNewsChina that BYD aims for a 15% cost reduction for the new Blade EV battery. The new unit will have an energy density of up to 210 ...

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Next year, BYD will launch its next-gen Blade battery, which will unlock even more range for upcoming EVs. The advanced new batteries are more compact, safer, and ...

BYD blade battery technology uses a new cell length to flatten the cell design. According to the BYD patent, the company"s blade battery can reach a maximum length of 2500mm, which is ...

BYD has been a pioneering name in the battery industry for more than 29 years. The driving force of each of our electric cars is the innovative BYD Blade Battery. Recognised as one of the ...

What is Blade Battery Technology? At its core, Blade Battery Technology is a novel approach to lithium iron phosphate (LiFePO4) battery design for electric vehicles. ...

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BYD uses the Blade battery in its new-for-2021 Tang electric SUV and in its Han EV sedan, among other vehicles. During development, the Blade battery was subjected to a ...

The Blade Battery is a revolutionary new technology that addresses tradi-tional lithium-ion batteries" shortcomings, offering a longer lifespan, higher energy density, ... energy density, ...

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