# Blade Battery New Energy Patent Protection

Can a BYD blade battery be used in the future?

In the future, it is necessary to highlight the advantages of the blade battery and put it into application. This paper integrates current information about BYD blade battery and compares the cars using the blade battery with the cars using other power batteries, so as to play a role in the promotion of BYD blade battery in the future.

What is a blade battery?

The structure of the Blade Battery from cell to pack. At the center of the design of the Blade Battery is the cell geometry, which has a much lower aspect ratio compared with conventional cylindrical or prismatic cells. According to BYD's patents, the cell depth (Z axis) is 13.5 mm while the cell length (X axis) can range from 600 mm to 2500 mm.

Is BYD blade battery a power battery?

This article analyzes the feasibility of BYD blade battery as a power battery by presenting the advantages and disadvantages of BYD blade battery. It can be concluded from the nail penetration test that BYD blade battery has good safety and is not easy to catch fire and explode.

What are the advantages of BYD blade battery?

In addition,the unique structure of BYD blade battery allows it to have the advantages of high energy density,long cycle life and wonderful safety performance. In today's electric vehicle market,NCM still occupy most of the market. In the future,it is necessary to highlight the advantages of the blade battery and put it into application.

What is BYD's next-generation blade battery?

In the rapidly evolving world of electric vehicles (EVs),where cost and efficiency are king,BYD has announced a game-changing development. The Chinese giant,known for its substantial strides in the EV market,is now targeting a 15% reduction in battery costs with its next-generation Blade Battery 2.0.

Is a 'blade battery' a game-changer in the electric vehicle industry?

In the past year leading Chinese battery and electric vehicle manufacturers like BYD have introduced a new type of car battery called the "Blade Battery." This battery has gained widespread attention in 2021-2022,being touted as a game-changer in the electric vehicle industry.

In the quest for safer and more efficient batteries, BYD"s Blade Battery technology stands out. This technology focuses on lithium iron phosphate (LiFePO4), known for its stability and safety in electric vehicles. The Blade Battery design aims to optimize energy density and thermal management, addressing critical concerns in battery performance and ...

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Blade Battery offers new levels of safety, durability and performance, as well as increased battery space utilisation. 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.

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-free battery pack. With the module-free pack design, VCTPR and GCTPR can be ...

The blade battery, developed by BYD, has emerged as a promising innovation in the field. This review paper provides a comprehensive overview of blade battery technology, covering its design ...

According to the patent, the "blade battery" technology has a volume energy density of more than 330Wh/L, which is more than 30% higher than the original battery system. The cost of battery packs is expected to be ...

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Due to the global trend of energy saving and emission reduction and the rapid development of new energy vehicles, the global lithium battery market is experiencing rapid growth in demand, mainly ...

The Chinese giant, known for its substantial strides in the EV market, is now targeting a 15% reduction in battery costs with its next-generation Blade Battery 2.0. This move could potentially accelerate the global shift from fossil fuel to electric power, making EVs more accessible and economically viable for millions.

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Since mass production is going to happen soon, BYD also needs to get it in terms of intellectual property rights. protection. As shown in the figure below, it is generally a critical path for key patents at the core of China to be named as leaders.

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Innovations behind BYD Blade Battery. Several patents have been filed by BYD related to this technology. Here are some key patents associated with the Blade Battery: Battery Pack, Vehicle, and Energy Storage ...

The distinctive feature of the BYD Blade Battery is the arrangement of battery cells in a blade-like formation which increases the contact area between cells and electrical pathways resulting in ...

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