



# Blade battery pack patent

The Blade Battery construction increases that number by 50 percent, so that 60 percent of the battery pack is now dedicated to energy storage. ... In other words, a battery pack of the same size ...

2022-11-15 Priority to US17/987,682 priority patent/US20230074724A1/en 2023-01-17 Application granted granted Critical ... the extruded plate is a cold plate blade configured for mounting in a vehicle and for bonding battery cells of a battery pack directly to the cold plate blade. In an example embodiment, the cold plate blade is a tensile ...

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.

BYD's Blade Battery design explored a bold CTP concept through its module-free pack. High quality control in materials and cell manufacturing, however, remain critical prerequisites of CTP.

On the one hand, it can improve the space utilization rate and energy density of the power battery pack; on the other hand, it can ensure that the battery cell has a sufficiently large heat dissipation area, ...

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

The embodiment of the utility model discloses a blade battery, a battery pack and a vehicle. The utility model is beneficial to avoiding the installation part by arranging the thinning part on the blade battery to form the groove. ... 2023-03-29 Priority to CN202320738039.8U priority Critical patent/CN220021192U/en 2023-11-14 Application ...

BYD CTP (Cell to Pack) technology makes the difference, with the Blade Battery increasing space utilization by 50%. This improves energy density and allows more batteries in a compact space, with a ...

BYD Blade Battery-Inspired by CTP Geometry. 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 ...

BYD will introduce its second-generation "blade" battery pack - with enough range to drive an electric car from Sydney to Melbourne on a single charge - as soon as August 2024.

The utility model discloses a blade lithium battery pack module structure, which relates to the technical field of lithium battery equipment and comprises an electric core module, a ...



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The March 2020 launched BYD Blade LFP prismatic battery looks to be an ultra-safe battery and it addresses concerns over EVs catching fire. It is innovative by being built into the EV frame ...

Battery pack modules: The Blade Battery is composed of multiple battery pack modules, with each module containing several prismatic battery cells. These modules are then combined to form the ...

These individual cells fit together in an array, and then a battery pack encloses them. This kind of cell-to-pack technology maximizes the use of space by over 50% as compared to conventional cylindrical lithium-ion phosphate batteries. Since more cells fit into the battery pack, the Blade battery also provides higher energy density.

Compared with blade battery vs CTP, BYD blade battery actually still retains the overall configuration of module packaging and battery pack packaging. At the same time, it can be seen from the patent drawing that the battery pack package will be able to reserve deformation space according to the needs of the model to avoid direct stress on the ...

Four distinct advantages of BYD's Blade Battery include a high starting temperature for exothermic reactions, slow heat release and low heat generation. The space utilisation of the battery pack is increased by over 50% compared to conventional lithium iron phosphate block batteries. True innovation and an industrial first. Material Safety.

BYD's patent for blade battery is authorized, sometimes it does not require too advanced technology to change the world. 2024-09-24 22:48. ... This allows the blade battery to increase the space utilization ...

Mehr Sicherheit, mehr Lebensdauer und mehr Effizienz: Das verspricht sich der chinesische Hersteller von seinem Akku-Patent für die sechseckige Rundzelle.

The embodiment of the utility model discloses a blade battery, a battery pack and a vehicle. The utility model is beneficial to avoiding the installation part by arranging the ...

The invention discloses a blade aluminum shell battery module, which comprises a U-shaped shell, wherein heat generated during charging and discharging of a blade battery pack is guided to a condensation elbow through an insulating heat-conducting fin, the heat is absorbed and exchanged through cooling liquid in the condensation elbow, the bottom ...

Blade Battery Technology. BYD's blade battery technology employs a new cell length to create a flatter design. According to BYD's patent, the blade battery can reach a maximum length of 2500mm, which is more than ten times that of a conventional lithium iron phosphate battery. This significantly enhances the efficiency of the battery pack.

Here are some key patents associated with the Blade Battery: Battery Pack, Vehicle, and Energy Storage



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Device (Publication Number: 20240128565 ) One of the key features of this battery is the ...

The LFP blade battery pack at 4 mAh cm<sup>-2</sup> loading achieves an energy density of 286-333 Wh ... Wang, X. & Wen, A. Single battery, power battery pack and vehicle. China Patent CN110364675A ...

Has little to do with the battery cell itself, and more to do with how the pack will be constructed. The 4680 is a tabless cylindrical cell. Nothing revolutionary, but a solid evolution of the hard cases cylindrical cell. Kind of like a Blade battery curled into a cylinder.

6 ¶; The accompanying exploded view of the Blade battery shows its simplicity. Typical dimensions of the compact, single-cell design are 905 x 118 x 13.5 mm (35.6 x 4.6 x .53 in.). The size can be customized. The ...

LFP became a major R& D focus, leading to the "Blade" battery, an innovation in lower cost, safer EV battery packs. As Chen explains it, "The blade battery originates from a concept called CTP - ...

facturer BYD. The Blade Battery is named after its unique shape, which resembles a blade. This battery has several advantages over traditional lithium-ion batteries, including a longer lifespan, higher energy density, and improved safety. The Blade Battery is a new type of lithium-ion battery that offers several advantages over traditional ...

Aspettando sviluppi, ricordiamo che Blade Battery ha debuttato sulla berlina di punta di Byd, la Han, ed ¶; poi stata adottata anche da altri modelli elettrici e ibridi plug-in della Casa, inclusi quelli che saranno venduti in Europa. A quanto pare la Casa starebbe lavorando anche a una seconda generazione di questo suo accumulatore LFP, ...

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 - ...

On the one hand, it can improve the space utilization rate and energy density of the power battery pack; on the other hand, it can ensure that the battery cell has a sufficiently large heat dissipation area, and can conduct internal heat to the outside, thereby matching higher energy density. ... According to the BYD patent, the company's blade ...

Battery pack modules: The Blade Battery is composed of multiple battery pack modules, with each module containing several prismatic battery cells. These modules are then combined to form the ...

The utility model discloses a blade lithium battery pack module structure, which relates to the technical field of lithium battery equipment and comprises an electric core module, a heat shrinkage film, a BMS module, a sealing film and a cable, and is characterized in that: the lithium battery module is respectively fixed in structure and packaged in a plastic ...



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