



# New Energy Blade Battery Patent Content

113 automobile industry in China<sup>8</sup>; the patent distributions of brand cars in the new energy technology<sup>9</sup>; comparative study of patent situation of key technologies in the new energy vehicles in China, Japan and the United States and other developed countries.<sup>10</sup> In addition, Guangdong Province in China has released "the patent analysis and forewarning reports on ...

The Geely New Short Blade EV Battery Technology uses a "high-strength, high-thermal stability, high-heat-resistant diaphragm, with a highly stable separator paired with safe electrodes resulting in higher energy density ...

Recently, BYD held an online conference to officially launch a new lithium iron phosphate product - "Blade Battery". Over the years, one of the main factors that have exercised automotive power ...

The revolutionary new Blade Battery offers new safety levels for the EV industry today. Following an exhaustive development programme, the Blade Battery returned truly impressive, class-leading test results; a stringent nail-penetration test confirmed the Blade Battery's surface temperature reached a remarkably low 30°C - 60°C while ...

During a nail-penetration ballistics test, the Blade battery's surface temperature remained with a 30°C-to-60°C range without any smoke or fire. And the battery successfully sustained repeated 80-Hz vibration attenuation, Chen said. According to BYD, the Blade battery exceeds 1.2 million km after 3,000 charge/discharge cycles.

"In terms of battery safety and energy density, BYD's Blade Battery has obvious advantages," said Professor Ouyang Minggao, Member of the Chinese Academy of Sciences and Professor at Tsinghua University. The Han EV, BYD's flagship sedan model slated for launch this June, will come equipped with the Blade Battery. The new model will lead ...

BYD claims new energy vehicles have entered "the knockout round" over gas-powered cars with superior tech and comparable prices. The comments come with its next-gen DM-i (PHEV) system due out ...

Skip to content (+86) 189 2500 2618 ... 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 ultra-thin and large cells. Structural durability comparison of blade battery vs CTP, BYD blade battery package ...

Two patents have been published for solid-state batteries. One is "a positive electrode material and its preparation method, a solid-state lithium battery". The patent ...

The number of China's new energy vehicle technology innovation patent applications in the past 20 years



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from 2002 to 2019 ...

Tapping offshore wind energy to generate electricity is emerging as a clean and renewable source of affordable and reliable electricity. It has been on the top agenda of all wind energy producers and distributors worldwide since 2006. The filling of patent applications in the offshore wind energy field surged between 2006 and 2022. The patenting activity in offshore ...

Blade battery packs showcased at the IAA Summit 2023, Germany. The 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. [1] [2] [3]The blade battery is most commonly a 96 centimetres (37.8 in) long and 9 centimetres (3.5 in) wide ...

The invention discloses a new energy automobile blade battery tray frame beam and a production process thereof.

BYD'S NEW BLADE BATTERY SET TO REDEFINE EV SAFETY STANDARDS Cell. ... Energy Content = 441.6 Wh; Dimensions = 960mm (L), 90mm (W), 12mm (H) Volume = 1.04 litres; Volumetric Energy Density = 424 Wh/L; Weight 2.63 kg [4] Gravimetric Energy Density = 168 Wh/kg; Cell casing = aluminium;

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%...

The negative is that energy density per kWh is still a long way below that of Tesla's current NCA battery from Panasonic, and more than 50% below Tesla's new 4860 tabless battery unveiled at Tesla ...

In addition, in extreme cold environments, the New EV Battery Technology has strong discharge capacity and longer driving range than long blade batteries. In ambient temperatures of -30°, the capacity retention rate of long blade battery on average fell to 78.96% while the New Short Blade EV Battery Technology retained 90.54% of its capacity.

The Han EV, BYD's flagship sedan model slated for launch this June, will come equipped with the Blade Battery. The new model will lead the brand's Dynasty Family, boasting a cruising range of 605 kilometers and an acceleration of 0 to ...

The utility model provides new energy blade battery welding equipment, which comprises a welding module and an object carrying module, and is characterized in that: the welding module...

In the new energy automobile industry, a patent cooperation network is a technical means to effectively improve the innovation ability of enterprises. Network subjects can continuously obtain, absorb, and use various resources in the network to improve their research and development strength. Taking power batteries of new energy vehicles as the research ...



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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 world's safest EV batteries, our battery has passed rigorous safety tests and is designed to maximise strength, range and life cycle.

Reports have emerged that the Chinese automaker is developing a second-generation Blade battery with a high energy density of 180 Wh/kg, a nearly 17% increase over the current energy density of 150 Wh/kg. Mated to a ...

A battery patent application submitted by Xiaomi was authorized on December 20. ... WeLion New Energy Technology, Zhuhai CosMX Battery, and battery material companies such as Liyang Tianmu Guide Battery Material Science and Technology Co., Ltd. Sign ... Our mission is to deliver premium content and contextual insights on China's ...

One groundbreaking development that has garnered significant attention is the Blade Battery. This article explores the capabilities, benefits, and impact of the Blade Battery in revolutionizing the EV landscape. Understanding Blade Battery Technology. Blade Battery technology represents a paradigm shift in energy storage for electric vehicles ...

The new battery is 40% shorter than a traditional blade battery. Geely submerged it in salt water and even fired a bullet at the battery during testing. The new cells can be charged 3,500 times.

The new Aegis short-blade battery features a compact design, which enhances safety and improves the flexibility of the battery pack layout. It also increases the energy density of blade-style LFP batteries to nearly 200Wh/kg. This makes it widely adaptable for various vehicle types, including sedans, commercial vehicles, SUVs, and MPVs. Notbaly ...

It revolutionized the EV market by revealing an ultra-safe game-changing Blade Battery, setting new benchmarks for other EV makers. Updated February 2023: In the ever-evolving world of electric vehicles, the Chinese carmaker BYD has turned out to be a kingpin. ... Since more cells fit into the battery pack, the Blade battery also provides ...

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 Geely New Short Blade EV Battery Technology uses a "high-strength, high-thermal stability, high-heat-resistant diaphragm, with a highly stable separator paired with safe electrodes resulting in higher energy density and safety" (yeah, they really emphasized that many highs in that single sentence).An internally-developed Self-Fusing technology also prevents ...

Even with all-wheel drive, the Dolphin can achieve a range of 650km, setting a new standard in its class.



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Recognizing the advantages of the Blade Battery technology, global automotive giants like NIO and Xiaomi are collaborating with BYD's subsidiary, Fudi Battery Company, to incorporate lithium iron phosphate batteries into their future models.

1. Background. Recently, BYD Chairman Wang Chuanfu revealed for the first time at a financial report communication meeting that BYD is currently developing the second-generation blade battery system, which will be released as early as August 2024. The energy density of the new generation of batteries will be 190Wh/kg, and the range of pure electric ...

Skip to content (+86) 189 2500 2618 ... 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 ultra ...

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% ...

The BYD Han EV will be the first vehicle powered by the new Blade Battery. BYD. ... a mere 40 percent of a typical LiFePO<sub>4</sub> auto battery pack's space is dedicated to the energy-storing battery ...

There are a couple outliers: high-nickel cylindrical cells, which are really optimised for energy and volume, and one more... guess which... Yep, the Blade cell, on the basis of the patent data, is around 2.7 g/cm<sup>3</sup>, compared to 2.15 g/cm<sup>3</sup> for ...

On December 3, 2019, the Ministry of Industry and Information Technology issued a public consultation on the "New Energy Vehicle Industry Development Plan (2021-2035)" (Draft for Solicitation of ...

SHENZHEN, China, March 29, 2020 /PRNewswire/ -- Today, BYD officially announced the launch of the Blade Battery, a development set to mitigate concerns about battery safety in electric vehicles ...

The number of patents as the function of patent assignees for (a) cell, (b) module, (c) pack levels. (d) Timeline of technology life cycle for the battery assembly.

Learn about BYD's Blade Battery and its benefits. New BYD Cars. Extensive research and development. A huge amount of research and development has gone into the batteries utilised within BYD's range of cars. BYD Blade Batteries were developed to not only improve efficiency, but to offer greater levels of safety when compared to a more common ...

[1,2] With this design, a single battery pack only requires 900 cells -- as opposed to the roughly 7,000 cells contained in a traditional pack -- which offers multiple advantages: It is easier to manufacture the battery pack, ...



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