



# How did the blade battery technology break through

The Blade battery also has a longer cycle life, meaning it can go through more charge and discharge cycles before losing capacity. This makes it ideal for heavy electric vehicles like buses ...

A BYD Dolphin powered by the Blade battery at the Auto Shanghai show in April. Photo by Bloomberg. Welcome back to The Electric! (Our first two issues can be found here.). Save the date: We are excited to announce The Electric's first live video event on Aug. 10 at 11 a.m. PT with Yet-Ming Chiang, a Massachusetts Institute of ...

BYD highlighted a video of the Blade Battery successfully passing a nail penetration test, which is seen as the most rigorous way to test the thermal runaway of batteries due to its sheer difficulty.

The Blade battery's reduced risk of failure is a significant advantage over traditional EV batteries. The battery comprises lithium-iron-phosphate (LFP) cells, less prone to heat buildup and...

The world's largest EV maker, BYD, broke ground on its first sodium-ion battery plant this week. It is investing \$1.4 billion (RMB 10 billion) with 30 GWh planned annual capacity. You likely ...

Assembling module-less battery packs with prismatic LFP battery cells is extremely easy and fast, but BYD goes a step further with its super long Blade battery cells. Currently the LFP (LiFePO<sub>4</sub>) cobalt-free chemistry allows to build EV batteries that are extremely safe, durable, simple, affordable and with good performance.

of blade battery technology have the potential to revolutionize the EV market, unlocking new opportunities for growth and addressing the barriers to widespread adoption [6].

BYD claims that, in the nail penetration test, the blade battery emitted no smoke or fire after being penetrated, and its surface temperature reached only 30 to 60 °C (86 to 140 °F). The blade battery also passed other extreme test conditions, such as being crushed and bent, being heated in a furnace to 300 °C (572 °F), and being overcharged by 260%. None of these resulted in a fire or explosion.

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Innovations in battery technology are crucial for advancing the electric vehicle (EV) industry. 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.

At an online launch event themed "The Blade Battery - Unsheathed to Safeguard the World", Wang Chuanfu, BYD Chairman and President, said that the Blade Battery reflects BYD's determination to resolve issues in ...



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The new Blade battery incorporated into all BYD vehicles comes developed from FinDreams Battery, an independent subsidiary of the Chinese automaker. The Blade battery itself is not new news, ...

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 ...

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 ...

During a standard test where a nail was driven into the battery, the Blade battery did not emit any smoke or fire, reaching a temperature between 30 to 60C, whereas the temperature of other ...

BYD's Blade battery is a game-changer in the EV world; in terms of safety and efficiency. It is also why EV giants, including Tesla, are betting on it . HotCars. ... We have updated this article with more information on why BYD blade batteries are superior to any other battery technology in the market. And we also tell why even Tesla is betting ...

The Blade Battery is a new type of lithium-ion battery developed by Chinese battery manufacturer BYD. The Blade Battery is named after its unique shape, which resembles a blade.

A lithium iron phosphate battery, Geely claims it has best-in-class battery life, charging speed - and ultimate safety. Geely's short blade battery is 580 mm long which is about 40% shorter than a traditional long blade battery which results in less internal resistance and heat generation while increasing volume utilization by 50%.

Forging ahead, Blade Batteries are open to the world. BYD boasts 26 years of R& D experience in the battery field and has 100% independent R& D and design capabilities, with the key components such as the Blade Battery ...

1) Battery storage in the power sector was the fastest-growing commercial energy technology on the planet in 2023. Deployment doubled over the previous year's figures, hitting nearly 42 gigawatts.

As battery work took off in China, Yang was facing more financial trouble in the U.S. So he made a decision that would again keep the technology from staying in the U.S. The EU has strict rules about ...

The BYD Blade Battery is an innovation in battery technology developed by BYD Auto Co., Ltd., a Chinese company that manufactures electric and hybrid vehicles. This type of battery is renowned in the electric vehicle ...



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The new Blade battery incorporated into all BYD vehicles comes developed from FinDreams Battery, an independent subsidiary of the Chinese automaker. The Blade battery itself is not new news, considering it debuted in March 2020, with tall claims of being the safest and the best on the market.

Brand also launches four new electric vehicles equipped with the leading, ultra-safe battery technology. Chongqing, China -- On April 7, 2021, BYD, a leading global EV maker, officially announced that all of its pure electric vehicles will now come with the brand's ultra-safe Blade Batteries, with nail penetration testing fully adopted as a brand standard.

The purpose is to simulate an internal short circuit of the battery. This is usually caused by external sharp metal objects penetrating the battery in a severe traffic accident. The Blade Battery passed the nail penetration test, without emitting smoke or fire. The surface temperature only reached 30 to 60°C.

A battery technology christened the BYD Blade battery promised to set a new benchmark in battery safety when the announcement was made in 2020. The BYD Blade battery was planned to be used in select cars, but now BYD has deployed the tech in multiple models, including the Qin Plus, Song Plus, BYD Tang EV, BYD Yuan Plus (BYD ...

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 - ...

In the midst of the soaring demand for EVs and renewable power and an explosion in battery development, one thing is certain: batteries will play a key role in the transition to renewable energy.

"BYD's Blade Battery aims to bring battery safety back to the forefront," says the company in their press release. In safety tests, BYD cites several examples where the blade battery has performed better than an LFP block battery. In a nail penetration test, for example, the new battery only hit surface temperatures of 30 to 60 degrees ...

The breakthrough is the latest step forward for a technology industry experts think can revolutionize energy storage, but which faces significant obstacles on the path to mass production ...

Straubel is now really impressed by QuantumScape's battery, which he described as "a major breakthrough": "The team at Tesla did an amazing job over the years optimizing inside that window ...

The strategy of switching to Blade Battery for all of the brand's future pure-electric models will make EVs safer, and help to accelerate the quickening pace of vehicle electrification ...

A look at BYD's latest news and the BYD Blade Battery. BYD's valuation, risks, further reading, and conclusion. ... a pioneer in battery technology, BYD's mission is to change the world by ...



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The other roadmap would see the development of a compact battery pack that has higher packing efficiency i, referring to technologies including the cell-to-pack design, the cell-to-vehicle design, etc. BYD Auto announced the Blade battery on March 29, 2020, leading the revolution in developing high compact battery pack with lithium-iron ...

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 ...

Battery technology companies, aiming for both incremental and breakthrough gains, have their task cut out. Car companies continue to invest in new battery plants and technological advances.

Blade battery has a prismatic form factor, but it is thinner and longer compared to traditional prismatic Lithium-ion cells. The cell uses LFP cathode chemistry and has a thin blade-like structure that offers structural advantage and better support to the battery pack than regular block-type prismatic cells.

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