

# Byd blade cell sizes

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BYD'S NEW BLADE BATTERY SET TO REDEFINE EV SAFETY STANDARDS Cell. BYD are able to make cells to a range of dimensions. The following set of specifications gives an example set of numbers that are consistent for this particular cell:

Prismatic Cell vs. Blade Cell. Let's take a look at blade batteries again and compare prismatic batteries and blade batteries that are widely used on the market. The prismatic cell length is 148 mm, the thickness is 79 mm, and the height is 97 mm. The internal structure is rolled and looks like a brick.

The blade battery is most commonly a 96 centimetres (37.8 in) long and 9 centimetres (3.5 in) wide single-cell battery with a special design, which can be placed in an array and inserted into a battery pack like a blade. It is made in various lengths and thicknesses.

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 longer driving range. The "honeycomb-like aluminum" design of the Blade Battery also provides greater rigidity and safety.

Since BYD announced the blade battery for the first time at the 100-person meeting for electric vehicles in January 2020 and the blade battery launch conference on March 29, there has been more discussion about blade batteries in the industry.

The other is that blade batteries solve many of the shortcomings of lithium iron phosphate and are groundbreaking.

Next, we will talk about the BYD blade battery.

Traditional battery systems first assemble battery cells into battery modules. Then install the battery module into the battery system for hierarchical management.

The battery module supports, fixes, and protects the battery cells in the mechanical structure.

The battery system plays a role in supporting, fixing, and protecting the battery module.

The blade battery is a brand new design concept. While using long batteries, the intermediate module link is omitted and the batteries are directly installed into the battery system. This effectively reduces weight and cost. This is similar to CTP in the CATL era.



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Contact us for free full report

Web: <https://kary.com.pl/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

