

What is a battery box?

The battery box is a pure incremental component in new energy vehicles, and the value of a single vehicle is about 3,000 yuan. The battery box is mainly composed of an upper cover and a lower case, which is the "skeleton" of the power battery module, and is used to protect the battery PACK against external impact, dustproof and waterproof.

What is a cast aluminum battery tray box?

The cast aluminum battery tray box has good integrity, which avoids the problems of welding, sealing, water leakage and corrosion of steel or extruded profiles. The hybrid versions of the Cadillac CT6 and Audi Q7 e-tron both use aluminum alloy casings.

What is EV battery case?

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What is NIO ES6 battery casing made of?

The carbon fiber reinforced composite (CFRP) battery casing of the NIO ES6 is 40% lighter than conventional aluminum or steel battery casings, has high rigidity, and has a thermal conductivity 200 times lower than aluminum. EV battery case can be made of hot-formed steel.

What is the battery case made of?

The lower battery case of the two models is made of die-cast aluminum alloy, and the upper case (cover plate) is made of stamped aluminum plate. The aluminum alloy die-casting lower shell adopts a one-time molding process, which is simple and can provide better strength, rigidity and sealing performance.

What are the advantages of aluminum frame & aluminum plate structure battery shell?

The aluminum alloy frame and aluminum plate structure battery shell have flexible structural design, obvious weight reduction and mature technology. The extruded aluminum frame can provide high rigidity and high strength, and the aluminum plate stamping parts are sealed.

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The battery case plays a vital role in collision energy management, which can prevent intrusion into the battery cell and also absorb energy to protect passengers. The aluminum housing is 50% lighter than the equivalent steel ...

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Precautions for Casting Aluminum Shell of New Energy Vehicle Power Battery. At present, new energy electric vehicles have become a key development direction for the automotive industry. ... which eliminates the welding process at the bottom of the box compared to the stainless steel shell. Good plasticity, therefore it can be made into various ...

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