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New Energy Battery Accessories Diagram

What happens after a battery module is assembled?

After the battery module is assembled, it needs to be placed into the battery tray. As this tray is a key structural component of the vehicle as well as integral in protecting the battery cells, it needs to be of the highest strength and stability.

What is a power battery pack?

The power battery pack provides energy for the whole vehicle, and the battery module is protected by the outer casing. The battery pack is generally fixed at the bottom of the car, below the passenger compartment, by means of bolt connections. The safety of the power battery pack is one of the important indicators to measure the safety of BEVs.

What is the main structure of a battery pack box?

The main structure of the battery pack box includes the upper-pressure cover, the upper-pressure rod, the lower box body of the battery pack, the inner frame, the lifting lug, the battery module, the single battery, and other structures.

What is the stress nephogram of a battery pack box?

Figure 10 shows the distribution of the stress nephogram of the battery pack box during the collision. The maximum stress value of the box is 335.5 MPa, and the maximum stress value of the lifting lug closest to the collision rigid column is 413.4 MPa.

How does a battery pack work?

The power battery pack of the target vehicle is connected with the structural bolts of the vehicle chassis through the lifting lugs welded on the lower box of the battery pack. The battery pack box of the target vehicle is arranged under the chassis, below the floor of the passenger compartment, disassembled from the electric vehicle.

How does a battery tray assembly work?

The battery tray assembly consists of several production steps. Depending on the battery design and manufacturing processes, manual tightening with bolt positioning and process control, or flow drill fastening with K-Flow technology can bring the needed process quality, productivity and flexibility.

We have outlined a complete battery assembly process for prismatic cells - from the single cell to the finished battery pack. We help our customers develop unique joining processes and select ...

The major components of the battery pack include a cooling system, battery packaging, a battery management system (BMS), and a pouch cell, which consists of anode, cathode, electrolyte,...

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directions for the chassis of new energy vehicles include integrated battery (Tesla"s CTC/CTB) BYD"s and molding (power, braking, steering, and other system components) integrated into the...

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