



New energy battery shell external processing parts list

What is a battery pack shell?

Battery pack shell: the external shell used to secure and protect the battery module. The parts that may use aluminum alloy materials include power battery casing wall panels,brackets,etc. Connector: a component used to connect battery modules and other components.

What are energy power battery shells made of?

The new energy power battery shells on the market are mainly square in shape,usually made of 3003 aluminum alloyusing hot rolled deep drawing process. Depending on the design requirements of the power battery,the thickness and width can be customized.

What is a power battery casing made of?

The material of the power battery casing is generally made of aluminum casing,because the aluminum casing has excellent lightweight structure,good thermal conductivity,and is safer and more durable.

What is a battery cooling system?

Cooling system: a system used to control battery temperature to improve battery performance and lifespan. The parts that may use aluminum alloy materials in the cooling system include power battery water cooling plates,heat sinks,etc. Battery pack shell: the external shell used to secure and protect the battery module.

What is a battery module & BMS?

Battery module: the basic unit used for storing and releasing energy. The parts that may use aluminum alloy materials include battery covers,heat dissipation fins,etc. Battery Management System(BMS): a system used to monitor,control,and protect batteries.

What material is used in power battery aluminum trays?

Chalco's production of power battery aluminum trays mostly uses 6-series 6061 aluminum plateas the raw material for battery aluminum trays,which can meet the characteristics of high precision,corrosion resistance,high temperature resistance,and impact resistance to protect the battery core.

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New Energy Vehicle Battery End Plate Die Casting Customized Products: CNC machining process, mold customization, airtightness testing, three coordinates testing, infiltration equipment testing, etc.

Reasonable structural design and connection method can effectively ensure the overall strength of the shell, reduce the difficulty of processing, reduce the weight of the shell, ...

Reasonable structural design and connection method can effectively ensure the overall strength of the shell, reduce the difficulty of processing, reduce the weight of the shell, and provide a reference for the lightweight design of the battery pack shell.

Its basic components include: module control (commonly known as BMS slave board), battery cells, conductive connectors, plastic frames, cold plates, cooling pipes, pressure plates at both ends, and a set of fasteners that combine these components together.

To cope with the rapid growth of New Energies vehicles industries, we have established our new energy battery metal cases and containers business department in 2016. The overall project plans for 18 sets of imported 600 tons 10-workstation high speed automatic aluminum shell stretching lines, outfitted with fully automatic mechanical feeder ...

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The main role of the battery pack shell is to carry the battery module, electrical module, cooling module and other power battery system components, and at the same time to protect the battery and electrical system from external collision, extrusion will not be damaged. Battery Pack Structure

The research object of this article is the processing process of new energy vehicle battery shells. In order to achieve digital design and process optimization of lithium battery shells, this article ...

The battery shell is the load-bearing part of the power battery of new energy vehicles, usually installed under the vehicle body, mainly used to protect the lithium battery from external impact and compression.

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used to connect battery modules and other components.

Into the shell, shell "Green · Green · Quality" as the theme of the new energy battery module and PACK assembly line, flexible to adapt to a number of PACK mixed production, and integrated high-speed truss robots, robot work island, ...

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