

What is energy long cell battery shell?

The new energy long cell battery shell developed and produced by our company adopts a cold bending forming+high-frequency welding process,which breaks through the constraints of traditional deep drawing/extrusion processes and overcomes the welding technology of ultra-thin aluminum shells.

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 alloy using hot rolled deep drawing process. Depending on the design requirements of the power battery,the thickness and width can be customized.

What is the new energy vehicle long cell battery shell sector?

The new energy vehicle long cell battery shell sector,as the company's main strategic development direction in the future,will become the main sector for the company's transformation from the traditional automotive industry to the new energy vehicle industry.

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 the disadvantages of aluminum battery shell?

Low tensile strength and hardness of the aluminum shell of the power battery can lead to low compressive strength and hardness,and the profile is prone to curved and tortuous shapes. Impact on battery stability
High-frequency Welded Long Cell Shell Battery Pack

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.

This study takes a new energy vehicle as the research object, establishing a three-dimensional model of the battery box based on CATIA software, importing it into ANSYS finite element software, defines its material properties, conducts grid division, and sets boundary conditions, and then conducts static and modal analysis to obtain the stress and deformation ...

568 G. Ruan et al. Table 1. Material properties of the aluminum alloy box Material Elastic Poisson's Density
Yield strength model modulus [GPa] ratio [kg/m³] [MPa] 6061-T6 72 0.33 2800 276

New energy battery box shell size specifications

With the rapid growth in new energy vehicle industry, more and more new energy vehicle battery packs catch fire or even explode due to the internal short circuit.

Type: Metal Battery Box Structure: Open Frame Certification: ISO9001:2000, VDE, CCC Form: All-packaged Type Size: 1 Unit Application Range: Widely Used

A high-energy lithium-ion full battery configured from the Si@C anode and commercial LiNi 0.6 Co 0.2 Mn 0.2 O₂ (Si@C||LiNi 0.6 Co 0.2 Mn 0.2 O₂) delivers an energy density that reaches ...

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The company's extensive product portfolio encompasses a wide range of offerings such as Electrical Enclosures, IP68 terminal junction boxes, server cabinets, water dispensers tailored ...

The battery box is a pure incremental component in the era of new energy vehicles. Pure electric vehicles are driven by electric motors, and the placement of the motors can be flexibly ...

At Shell Energy, our experts are involved throughout the project lifecycle, helping with guidance on the project plan and technical design specification for the battery system. Once the system is operational, Shell Energy's experienced trading ...

Discover the advanced prismatic aluminum shell battery production line designed for high energy density and structural stability. Our electric vehicle battery production line ensures long cycle life and consistency, ideal for EVs, energy storage systems, ... Technical Specifications: Applicable Battery Sizes: Customizable, e.g., 100Ah, 200Ah ...

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