

SolarInvert Energy Solutions

Aluminum plate for energy storage battery



Overview

The aluminum plate segment serving as the primary structural component in battery shell design has emerged as a pivotal enabler of next-generation energy storage solutions. Are aluminum-ion batteries a good choice for energy storage devices?

Aluminum-ion batteries (AIBs) are recognized as one of the promising candidates for future energy storage devices due to their merits of cost-effectiveness, high voltage, and high-power operation. Many efforts have been devoted to the development of cathode materials, and the progress has been well summarized in this review paper.

What material is used in power battery aluminum trays?

Chalco's production of power battery aluminum trays mostly uses 6-series 6061 aluminum plate as 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.

Which aluminum alloy is used in power batteries?

Aluminum alloy is a commonly used material for power batteries, and there is an urgent need to focus on research, development, and upgrading of products and alloy materials. At present, the conventional aluminum alloys used in power batteries mainly include 1-series, 3-series, 5-series, and 6-series.

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 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 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.

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New energy vehicle liquid cooling plate

and energy storage battery liquid cooling plate usually use 3003 aluminum plate as raw material. 3003 aluminum plate is a kind of aluminum manganese ...

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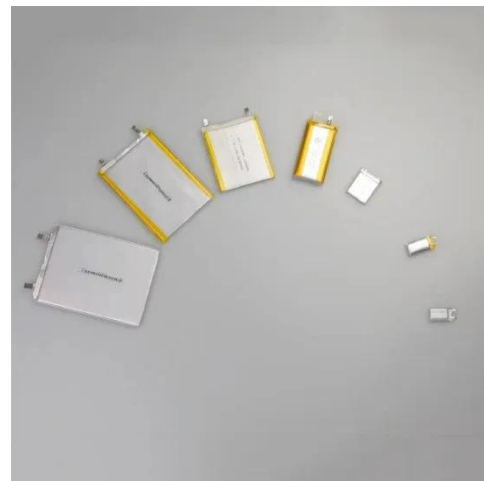
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