

A-Core Container

Square lithium battery pack structure



Overview

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Square lithium batteries, also known as prismatic batteries, feature a rectangular shape that allows for efficient space utilization in various applications, particularly in electric vehicles and energy storage systems. Their design offers several advantages, including high energy density and.

The three mainstream packaging shapes—square, cylindrical, and soft pack—each correspond to unique manufacturing processes, akin to three keys that open the doors to different application scenarios. This article delves into the technical routes and manufacturing mysteries behind these three lithium.

The battery structure refers to the arrangement and installation of the internal components of the battery. Different needs and applications require corresponding adjustments to the battery structure to meet actual needs. For example, positive electrode materials differ between ternary lithium.

A typical square lithium battery, the main components include: head, shell, positive plate and negative plate, diaphragm of laminated or winding,

insulation, safety components, etc. Among them, two of the red circle is the security structure, NSD needle safety device; OSD overcharge protection.

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