



SolarTech Power Solutions

Airtightness of rack-mounted lithium battery pack



Overview

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The air tightness of the battery pack is a crucial indicator in electric vehicles and energy storage systems. The air tightness test of the battery pack is mainly carried out on the battery pack shell, interface, connector, cooling assembly, etc. to ensure that the inside of the battery pack is not.

A lithium battery pack is a battery assembly that combines multiple lithium battery cells and is equipped with a corresponding battery management system (BMS), electrical connections, mechanical structure, and thermal management system to meet specific application requirements. It is widely used in.

Effective January 2025, a new requirement was introduced into the packing instructions for the air transport of lithium batteries that are packed with, or contained in equipment (PI 966-II, PI 967-I and II, PI 969- II, and PI 970 – I and II). This additional measure is for non-UN Specification.

The utility model relates to a lithium ion battery package air tightness test tool, which comprises an air tightness detector and a base plate, wherein one end of the base plate is fixed with a module baffle, the other end of the base plate is fixed with a cylinder mounting seat, and at least one.

Air tightness testing of battery PACK packages before they are rolled off the production line is a key step to ensure the safety and reliability of the battery packs. As the requirements for battery systems in electric vehicles, energy storage equipment and other fields increase, the role of air.

Conventional air tightness verification often relies on manual air pump injection, making it difficult to accurately quantify leakage rates or generate detailed evaluation reports. Environmental factors such as temperature variations significantly impact the accuracy of traditional air tightness.

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