

Solar container battery airtightness requirements





Overview

Why do energy storage batteries need air tightness tests?

Energy storage batteries require stringent leak detection for battery performance and battery safety and air tightness testing due to potential hazards and degradation caused by leaks. Lithium-ion battery air tightness tests play a crucial role in ensuring long-term performance and durability.

How to test a battery pack air tightness?

The battery pack is equipped with a high-voltage connector port and a heat dissipation port, creating challenges in effective blockage during testing. For the battery pack air tightness assessment, there are two indicators: pressure drop value and leakage rate.

Why do lithium ion batteries need air tightness tests?

Lithium-ion battery air tightness tests play a crucial role in ensuring long-term performance and durability. Preventing leaks in battery manufacturing through reliable air-tightness testing methods ensures that battery packs perform optimally, safeguarding both performance and safety.

What happens if a battery is not sealed?

If it is not sealed, it will lead to the loss of power capacity, a decline in battery life, and reduced safety. The combination of the upper and lower boxes, high-voltage electrical connectors, water-cooled pipes, and heat dissipation ports (waterproof and breathable holes) are the key areas for battery air tightness testing.



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