Battery pack airtightness test method

How to test EVs battery?

3.1 Air tightness testThe main method for airtightness testing for EVS batteries is to use a gas pressurization system,connect the product to the airtightness tester by using a quick connector,and then charge the gas into the battery box to be tested. After the air pressure stabilizes,observe the change in internal pressure over time.

What is flanging in a battery pack?

The front and rear surfaces are flat planes with flanging. Although the design of the slope in the direction increases the difficulty of design and production,it plays a significant role in the sealing effectof the battery pack.

Why should a car battery pack have an inclined surface?

In addition to the above, on the other hand, when a small amount of liquid falls on the sealing slope of the battery pack outside the car when going up, the design of the inclined surface can prevent the liquid from falling on the inclined surface from flowing into the battery pack and prevent the liquid from damaging the battery system.

How to tighten a battery box flange?

In order to ensure the tightness of the fixing point between the high/low-voltage connectors and the battery box, the nuts at the fixing point can be blind-hole butt welded nuts, and the flange surface can be directly butt welded to the battery box wall.

Do EV batteries need a leak test?

Manufacturers must also determine if they are going to test with a positive or negative (vacuum) pressure within the pack. Without question, leak testing an EV battery is one of the most challenging applications that any leak test company will tackle.

Why is EVs battery pack sealing important?

The sealing of the EVS battery pack is very critical to the battery pack's safety in the box. New sealing structures and sealing materials are constantly emerging. Battery pack sealing is constantly being explored,evolved,and improved.

Air tightness testing. For the battery pack that is off the production line or has been repaired, we can"t do a water immersion test on such a battery pack to test the tightness. At this time, we ...

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An air tightness detection and battery pack technology, which is used in fluid tightness testing, liquid tightness

measurement using liquid/vacuum degree, measuring device, etc., can solve ...

New Launch ELT-500 EV Battery Pack Airtightness Tester is non-destructive testing equipment with high precision, which uses compressed air as a medium to apply a certain pressure to the inner cavity or surface of the product to be ...

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The pressure drop method determines the airtightness of the battery pack by measuring the pressure change inside the battery pack. When performing airtightness testing, multiple parameters need to be paid attention to, such as inflation pressure, inflation time, pressure stabilization time and leakage rate.

The air tightness test is a test method to verify the air tightness of the container, also known as the tightness test or waterproof test. It is a compact test using gas as the ...

The size, structural characteristics and applications of a battery pack present a multi-faceted challenge in devising an appropriate leak test. Battery packs are large and often have flexible surfaces. These large internal volumes and expansive surface areas increase variability, which ultimately impacts the accuracy of the selected test method ...

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