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Title: Huawei battery pack heat dissipation method

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First, the heat generation and heat transfer model of the lithium-ion battery cell are derived based on thermodynamic theory. Then, the thermodynamic governing equations of battery ...

This study investigates the thermal performance of a 16-cell lithium-ion battery pack by optimizing cooling airflow configurations and integrating phase change materials (PCMs) for ...

Effective thermal management is essential for the safe and efficient operation of lithium-ion battery packs, particularly in compact, airflow-sensitive applications such as drones.

In view of the harsh conditions of rapid charging and discharging of electric vehicles, a hybrid lithium-ion battery thermal management system combining composite phase change material (PCM) with liquid ...

In this work, a heat pipe heat dissipation model of a twelve-lithium-ion-battery module is established to obtain relatively optimal heat dissipation fin structure parameters, and effect of HP ...

This paper delves into the heat dissipation characteristics of lithium-ion battery packs under various parameters of liquid cooling systems, employing a synergistic analysis approach.

At present, the common lithium ion battery pack heat dissipation methods are: air cooling, liquid cooling, phase change material cooling and hybrid cooling. Here we will take a ...

This study introduces a novel, cost-effective air-cooling system utilizing parallel copper sheets with circular copper rings as fins to enhance heat dissipation.

In this paper, a liquid cooling system for the battery module using a cooling plate as heat dissipation component is designed. The heat dissipation performance of the liquid cooling system ...

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ABSTRACT e compact designs and varying airflow conditions present unique challenges. This study investigates the thermal performance of a 16-cell lithium-ion battery pack by optimizing cooling ...

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