

Title: Double-layer lithium battery pack

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Abstract: To address the reduction in performance and lifespan of a battery pack caused by inconsistencies in the state of charge of individual cells, this paper proposes a double-layer active ...

This scheme is applied for controlling the minimum voltage among the cells of the lithium-ion battery. It uses a multi-winding transformer based on a forward double converter structure.

To alleviate this inconsistency, a double-layer ring-structured equalization topology is proposed, which has the advantages of flexible equalization path and fast equalization speed.

To meet the requirements raised by a factory for the lithium battery module (LBM), a liquid cooling plate with a two-layer minichannel heat sink has been proposed to maintain temperature uniformity in the ...

Here, the authors created a new strategy by engineering a passivating electric double layer to achieve a fast-charging and lowtemperature high voltage lithium metal batteries.

In order to reduce the time and improve the balancing speed of traditional single-layer inductive equalization circuits, this paper proposes an active equalization control strategy with double ...

Specifically designed for cylindrical battery packs, we propose a novel TMS combining phase change material (PCM) with a double-layer cold plate. To enhance the overall performance of ...

The results show that the dual-layer counterflow design significantly reduces the overall temperature of the battery pack and improves temperature uniformity.

The implementation of double-layer coating technology is crucial for advancing lithium-ion battery efficiency. By leveraging intricate multi-layer structures, this approach offers superior battery ...

Based on the above-mentioned analysis, this paper designs a double-layer combination balance system based



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on graph theory. The system is divided into bottom-layer balance, which ...

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