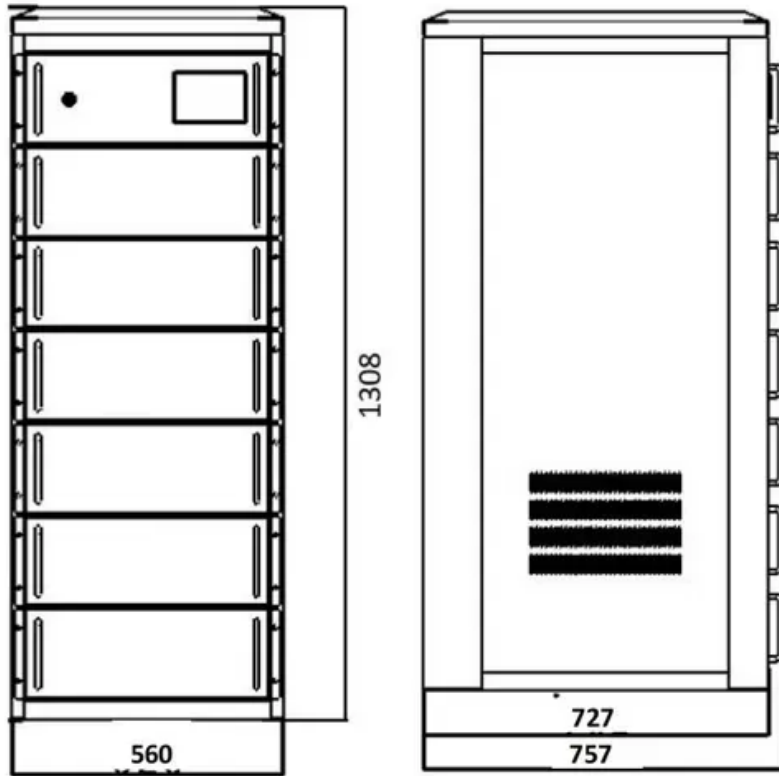


Double-layer battery pack



Double-layer battery pack



A two-layer active balancing system for battery pack based on flexible

Initially, a two-layer active equalization topology is designed, utilizing flexible reconstruction for battery systems. The equalizing process is represented by a graph model using graph theory, which ...

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WO2023216308A1

The battery pack is installed in a cavity between the upper layer and the lower layer, and the support plate of the lower layer semi-surrounds the battery pack.



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Dual-layer active equalization control for series-connected batteries

This dual-layer configuration establishes a direct energy transfer path for non-adjacent batteries, effectively reducing equalization time. In addition, to minimize repeated energy transfers, a multimodal ...

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Dual-Layer Inductor Active Equalization Control for Series

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-layer inductors ...

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Heat dissipation analysis of double-layer battery pack under coupling

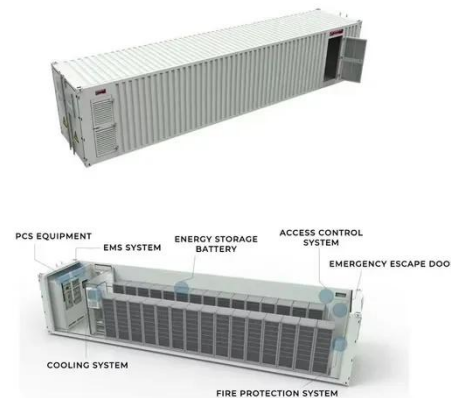
The conclusion can provide reference for structural design and optimization of thermal management system of the liquid-cooled double-layer battery pack.

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Dual-Layer Energy Equalization for Series Battery Packs by ...

This paper designs a dual-layer hardware topology for series battery packs to realize the synchronous energy transfer among cells in the same module and cells across different modules.

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WO/2026/025615 BATTERY PACK HAVING DOUBLE-LAYER STRUCTURE, ...

The present application discloses a battery pack having a double-layer structure, a solid-state lithium-ion

battery, and an electric vehicle. The battery pack having a double-layer structure comprises a ...

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A kind of intelligent PID double-layer active balancing control method

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 balancing control method for a lithium-ion ...

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Double-layer balance system of voltage source series energy storage

Based on the above-mentioned analysis, this paper designs a double-layer combination balance system based on graph theory. The system is divided into bottom-layer balance, which balances several ...

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Mixed Two-Layer Balancing of Battery Packs for Electric Vehicles and

One opportunity to improve traditional balancing in sub-medium size battery packs is to combine two balancing methods: passive and active.

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