
Choosing the right battery thermal management system is crucial for safety, performance, and lifespan. Explore ESS"s guide to Air, Liquid, Refrigerant, and Immersion ...

Castrol and LION Smart have partnered to develop direct battery cooling technology that immerses cells in dielectric fluid, aiming to improve thermal management, ...

By enabling faster charging, improving safety, and extending battery lifespan, direct liquid cooling meets the evolving demands of the electric vehicle industry.

In contrast, direct cooling systems exploit the isothermal evaporation of refrigerants to achieve efficient heat dissipation with minimal temperature gradients. This paper presents a ...

XING Mobility is bringing 800V immersion-cooled batteries to AI data centers, starting with a CES 2026 debut.

Immersion-Cooled BESS transforms battery cooling into a safety architecture, enabling safer regulation-ready energy storage deployments.

To mitigate these issues, this study proposes and optimizes a direct cooling thermal management strategy using R134a with half-helical ducts designed for 18650-type cylindrical ...

Two specifically designed direct cooling plate schemes are proposed and tested under the condition of charging at 38 °C. The results demonstrate that a significant ...

The present review summarizes numerous research studies that explore advanced cooling strategies for battery thermal management in EVs. Research studies on phase change ...

Thermal Management makes Battery Energy Storage more efficient Energy storage plays an im. ortant role in the transition towards a carbon-neutral society. Balancing energy production and ...

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