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Title: Energy storage liquid cooling module

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What is a liquid-cooled Bess system?

The liquid-cooled BESS--PKENERGY next-generation commercial energy storage system in collaboration with CATL--features an advanced liquid cooling system for heat dissipation.

What is a data center cooling and energy storage system?

In this study, a system for data center cooling and energy storage is proposed. The system combines the liquid cooling technology with the Carnot battery energy storage technology. The liquid cooling module with the multi-mode condenser can utilize the natural cold source.

Can a multi-mode liquid-cooling system integrate with a Carnot battery energy storage module?

In this study, the feasibility of the multi-mode liquid-cooling system integrated with the Carnot battery energy storage module is analyzed. Three typical cities are selected as application sites, and the analysis is carried out based on annual performance, payback period, and sensitivity.

What is the COP of a liquid cooling module?

The liquid cooling module with the multi-mode condenser can utilize the natural cold source. The Carnot battery module can recover liquid cooling module waste heat and realize efficient energy storage. The main conclusions are as follows: When the outdoor temperature is $-10\sim 30\text{ }^{\circ}\text{C}$, the COP of the liquid cooling module is $45\sim 25$.

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