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Energy storage liquid cooling integrated machine

Overview

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 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 data center cooling and energy storage meet current electricity pricing policies?

Continuous power and cooling requirements of data center make it difficult for conventional energy management systems to meet the current electricity pricing policies. 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.

What type of cooling system is used in a data center?

The novel system belongs to the chip-level system. Currently, conventional rack-level and room-level cooling systems are widely adopted in the data center. In the previous research, the author conducted the cooling system retrofit project for a data center with a total load of 160 kW.

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