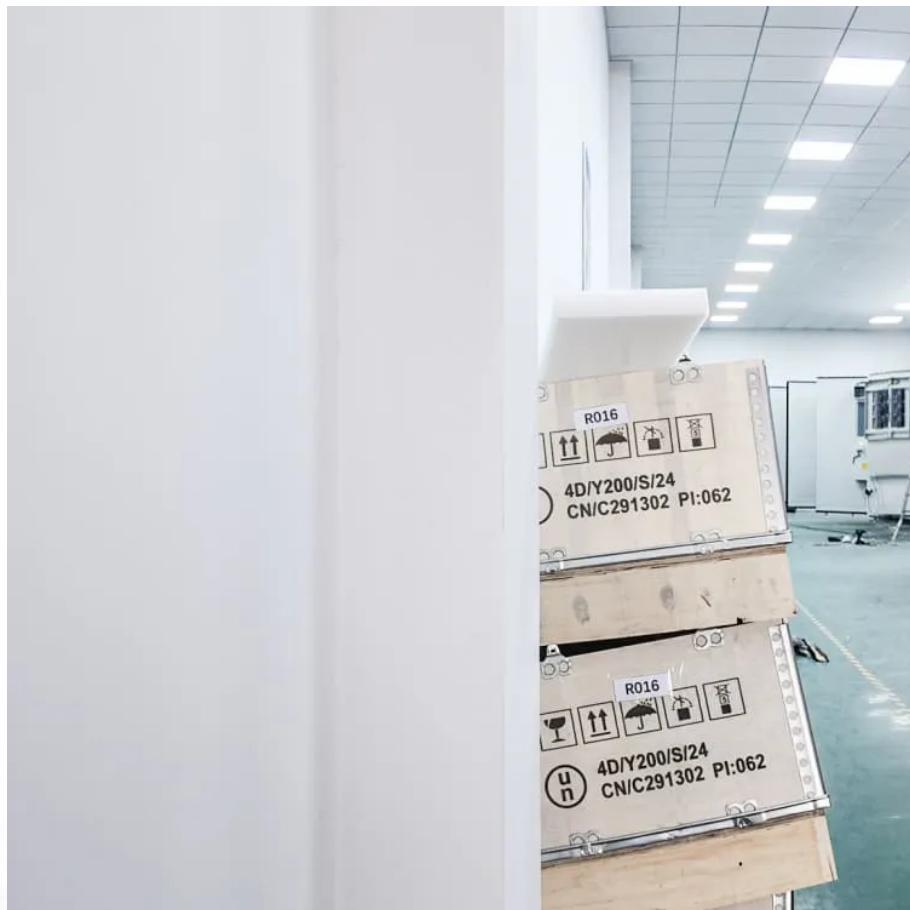




WALMER ENERGY

Power supply mode of energy storage liquid cooling unit





Overview

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 is the SD of a novel cooling system in Guangzhou?

In Guangzhou, the SD of the novel, rack-level, and room-level cooling systems are 14.1 kW h, 188.1 kW h, and 119.7 kW h, respectively. The energy consumption fluctuation of the novel system equipped with the energy storage module is low, which benefits the power grid stability. (28) $SD = \sqrt{\frac{\sum (y - \bar{y})^2}{n}}$

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.



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