

SolarTech Power Solutions

Power supply for energy storage cabinet liquid cooling processing site



Overview

Is indirect liquid cooling a viable solution for cabinet power density reduction?

Indirect liquid cooling is currently the main cooling method for the cabinet power density of 20 to 50 kW per cabinet. An integrated energy storage batteries (ESB) and waste heat-driven cooling/power generation system was proposed in this study for energy saving and operating cost reduction.

What is the total energy consumption of a liquid cooling data center?

The total energy consumption includes the energy consumptions of the cabinets, uninterruptible power supply (UPS), cooling system, lighting system, power transfer, and distribution system. The PUE of the liquid cooling data centers can usually be reduced to below 1.3 [6, 7].

Why are energy storage systems important?

Energy storage systems (ESS) have the power to impart flexibility to the electric grid and offer a back-up power source. Energy storage systems are vital when municipalities experience blackouts, states-of-emergency, and infrastructure failures that lead to power outages.

What is the PUE of a liquid cooling data center?

The PUE of the liquid cooling data centers can usually be reduced to below 1.3 [6, 7]. For places with low ambient temperatures, their PUE is supposed to be lower than this value for a higher cooling system efficiency and larger natural cooling time.

Why do liquid cooling data centers need energy-saving retrofitting?

However, for places with high ambient temperatures like Shenzhen, its liquid cooling PUE may still be higher than 1.3, and this is why the local liquid cooling data centers need energy-saving retrofitting to meet local policies for PUE in Shenzhen.

Can integrated energy storage batteries and waste heat-driven cooling/power generation save energy?

An integrated energy storage batteries (ESB) and waste heat-driven cooling/power generation system was proposed in this study for energy saving and operating cost reduction. Energy, economic and environmental analyses were carefully carried out for a data center in Shenzhen.

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