

A-Core Container

New Energy Liquid Cooling Energy Storage Battery Cabinet Communication Power Supply



Overview

What is pknergy liquid cooled energy storage system?

The PKNERGY liquid-cooled energy storage system solution can be equipped with a self-developed battery pack balancer, increasing the system's usable capacity by 10%. This further unlocks the potential of the liquid-cooled BESS, maximizing its performance and efficiency.

What is a liquid cooling system?

The advanced liquid cooling system ensures a cell temperature difference of less than 3%, effectively preventing system overheating and enhancing energy efficiency. This optimized cooling system allows for stable performance and improved longevity of the battery energy storage system.

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 pknergy Bess (battery energy storage system)?

PKNERGY has launched a new all-in-one liquid-cooled BESS (Battery Energy Storage System) series. The upgraded solution features globally leading long-life CATL LFP cells, offering a lifespan of up to 8000 cycles at 70% DOD (Depth of Discharge).

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].

Are containerized battery cooling systems a good investment?

Compared to traditional containerized battery cooling systems, energy consumption is reduced by 30%, and the lifespan is extended by 2 years, making it a more promising solution for return on investment.

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