

## Kongres Container

# Energy storage liquid cooling system power frequency



## Overview

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The project features a 2.5MW/5MWh energy storage system with a non-walk-in design which facilitates equipment installation and maintenance, while ensuring long-term safe and reliable operation of the entire storage system. The energy storage system supports functions such as grid peak shaving.

It can help customers cut peaks and valleys, adjust peaks and frequency, reduce dependence on the power grid. The product is green and environmentally friendly, with low noise, zero pollution and zero emissions. The system which can meet different power needs in different scenarios such as fixed.

The 211kWh Liquid Cooling Energy Storage System Cabinet adopts an "All-In-One" design concept, with ultra-high integration that combines energy storage batteries, BMS (Battery Management System), PCS (Power Conversion System), fire protection, air conditioning, energy management, and more into a.

ontrol system, fire protect parks, charging and discharging station .

For thermal power auxiliary frequency regulation, the energy storage system requires batteries with high discharge rates, rapid response times, high energy efficiency, temperature safety, and long lifespan. Therefore, for combined thermal power and frequency regulation projects, LiFePO4 batteries.

High energy-density projects such as commercial and industrial (C&I) grid-tied storage, frequency regulation, or Virtual Power Plants (VPPs). In these

environments, liquid cooling BESS ensures reliable performance, precise thermal control, and improved safety. The Seplos UltraPower 1000 BESS is a. What is a liquid cooling unit?

The product installs a liquid-cooling unit for thermal management of energy storage battery system. It effectively dissipates excess heat in high-temperature environments while in low temperatures, it preheats the equipment. Such measures ensure that the equipment within the cabin maintains its lifespan.

What is a 5MWh liquid-cooling energy storage system?

The 5MWh liquid-cooling energy storage system comprises cells, BMS, a 20'GP container, thermal management system, firefighting system, bus unit, power distribution unit, wiring harness, and more. And, the container offers a protective capability and serves as a transportable workspace for equipment operation.

What are the functions of the energy storage system?

The energy storage system supports functions such as grid peak shaving, frequency regulation, backup power, valley filling, demand response, emergency power support, and reactive power compensation. The 2.5MW/5.016MWh battery compartment utilizes a battery cluster with a rated voltage of 1331.2V DC and a design of 0.5C charge-discharge rate.

What is a liquid cooling thermal management system?

The liquid cooling thermal management system for the energy storage cabin includes liquid cooling units, liquid cooling pipes, and coolant. The unit achieves cooling or heating of the coolant through thermal exchange. The coolant transports heat via thermal exchange with the cooling plates and the liquid cooling units.

How to choose an energy storage unit?

The choice of the unit should be based on the cooling and heating capacity parameters of the energy storage cabin, alongside considerations like installation, cost, and additional functionalities. 3.12.1.2 The unit must utilize a closed, circulating liquid cooling system.

How does a liquid cooling unit work?

3.12.1.3 The design of the liquid cooling unit must align with the cabin structure, adequately addressing dust prevention needed in the operating environment. The liquid cooling pipeline operates in a closed loop. The coolant, propelled by a pump, circulates through the cold plate, exchanging heat with the batteries, which raises its temperature.

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