Kongres Container

Installation of new liquid-cooled energy storage battery cabinet

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Overview

What is a liquid cooled energy storage battery container?

ong lasting, battery energy storage system. Liquid-Cooled ESS Cabinet Liquid-cooled energy storage battery container is an integrated high- ensity energy system, Consisting of batt ry . PRODUCT SPECIFICATION Composition Of . Compact : 1.4m² footprint.

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.

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.

How does an energy storage inverter work?

Energy Storage Inverter: Each battery compartment connects to a 2500kW-PCS, enabling bidirectional energy conversion between the battery system and the grid. The battery compartment employs a 20’GP non-standard container measuring 6058mm×2550mm×2896mm, housing a total of 12 battery clusters, resulting in a total system capacity of 5.016MWh.

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.

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