

Layout inside the liquid-cooled energy storage container





Overview

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.

Where is the liquid cooling unit located?

The liquid cooling unit, firefighting system, confluence chamber, and power distribution room are located at one end of the cabin, with the liquid cooling unit taking up the majority of the space. The liquid cooling piping runs along the bottom of the cabin, while the firefighting piping and wiring are laid out at the top.

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.

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.



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Liquid-cooling becomes preferred BESS ...

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Liquid Cooling Energy Storage System , GSL Energy

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INTERIOR LAYOUT OF 5MWH LIQUID COOLED ENERGY STORAGE

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