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Title: Liquid Cooling Energy Storage Box

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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 is a populated 20ft NWI liquid-cooling energy storage container?

*Specification of Battery Rack The populated 20ft NWI liquid-cooling energy storage container is an integrated high energy density system,which consists of battery rack system (280Ah LFP cell),BMS (battery management system),FSS (fire suppression system),thermal management system and auxiliary distribution system.

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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High-power battery energy storage systems (BESS) are often equipped with liquid-cooling systems to remove the heat generated by the batteries ...

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