

## ContainerPower Energy Solutions

# Container Energy Storage Technical Parameters



## Overview

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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 much power does an energy storage container need?

Normal lighting requires a 380/220V power input. Evacuation signs with batteries are provided at exits. 3.8.4.2 Energy storage containers should use rock wool materials for thermal insulation design, featuring insulated wall panels, doors, floor, and roof to prevent the formation of thermal bridges that cause excessive heat loss.

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.

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 many battery clusters are in a 20 GP battery compartment?

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. Each set of 12 battery clusters connects to a bus cabinet, forming a standard 5MWh DC compartment energy storage system.

What is energy storage firefighting?

The energy storage firefighting system is designed specifically for fire safety in storage facilities which aims to prevent and respond to any fire incidents that may occur, ensuring both personnel safety and normally equipment functioning.

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