ContainerPower Energy Solutions

# Liquid-cooled energy storage container firefighting



## Overview

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.

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 does liquid cooled technology affect fire safety?

AGES OVER TRADITIONAL AIR-COOLING LITHIUM-ION TECHNOLOGIESConventional air-cooled systems use fans to pull in external air, potentially introducing humidity and condensation (i.e., water ingress) into the sys em, which can lead to short-circuiting and thermal events. Instead, liquid-cooled technology offers improved fire safety, among ot.

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 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 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.

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