

SolarInnovate Energy Solutions

Liquid Cooling Energy Storage EK



✓ LIQUID/AIR COOLING

✓ PROTECTION IP54/IP55

✓ PCS EMS

✓ BATTERY /6000 CYCLES

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.

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.

How are energy storage batteries integrated in a non-walk-in container?

The energy storage batteries are integrated within a non-walk-in container, which ensures convenient onsite installation. The container includes: an energy storage lithium iron phosphate battery system, BMS system, power distribution system, firefighting system, DC bus system, thermal management system, and lighting system, among others.

What is a liquid cooling system?

This project's liquid cooling system consists of primary, secondary, and

tertiary pipelines, constructed by using factory prefabrication and on-site assembly within the cabin. The primary liquid cooling pipes utilize 304 stainless steel, whereas the secondary and tertiary pipes are made from PA12 nylon tubing.

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.

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Why More and More Energy Storage Companies Are Choosing Liquid Cooling

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