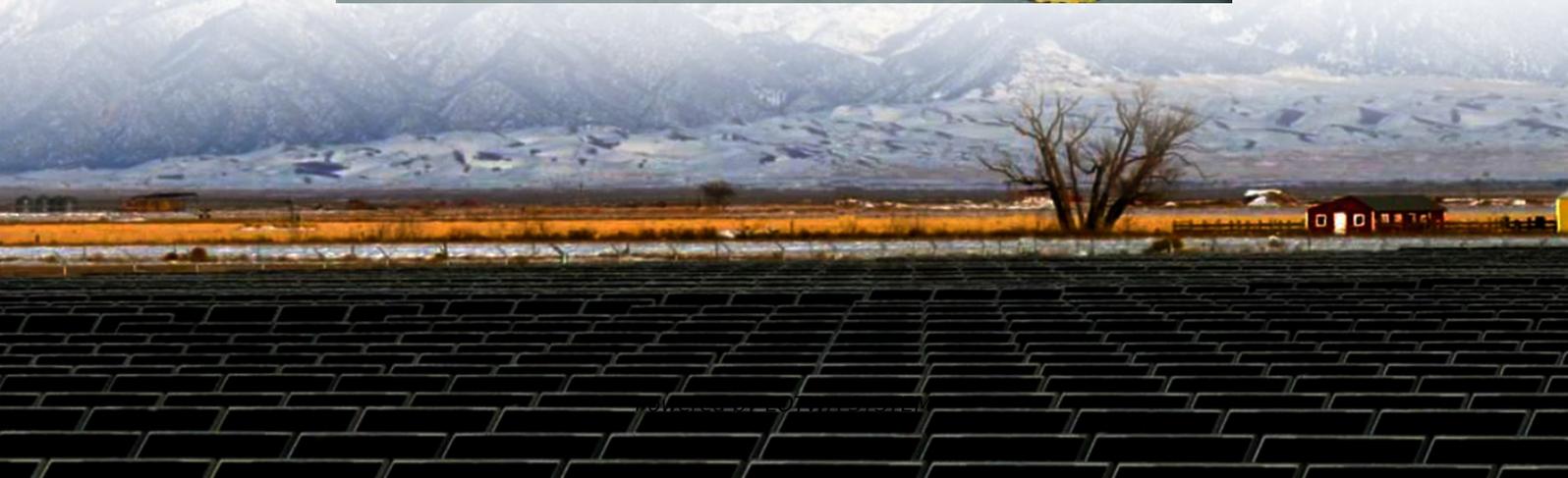


How to install the air duct of the battery compartment of the energy storage container





Overview

How does a containerized energy storage battery system work?

These ships are equipped with containerized energy storage battery systems, employing a “plug-and-play” battery swapping mode that completes a single exchange operation in just 10 to 20 min . Therefore, it can be used on the ship to achieve “separation of the ship's electricity” and improve the efficiency of power exchange.

Does air-cooling improve battery thermal management system?

The air-cooling system is of great significance in the battery thermal management system because of its simple structure and low cost. This study analyses the thermal performance and optimizes the thermal management system of a 1540 kWh containerized energy storage battery system using CFD techniques.

What is a containerized storage battery compartment?

The containerized storage battery compartment is separated by a bulkhead to form two small battery compartments with a completely symmetrical arrangement. The air-cooling principle inside the two battery compartments is exactly the same.

Where is the air supply duct located?

The air supply ducts are positioned directly above the battery racks, with six identically sized air conditioning vents along the duct sidewalls, opposite the partition. The control cabinet is situated on the left side of the battery compartments, while the air conditioning units are installed on the right side of the container. Fig. 1.



How to install the air duct of the battery compartment of the energy

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