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

What is a containerized energy storage battery system?

The containerized energy storage battery system comprises a container and air conditioning units. Within the container, there are two battery compartments and one control cabinet. Each battery compartment contains 2 clusters of battery racks, with each cluster consisting of 3 rows of battery racks.

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.

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