



MODERNIZATION SOLAR

Internal structure of the solar container battery compartment





Overview

The battery system is mainly composed of battery cells connected in series and parallel: first, several groups of battery cells are connected in series and parallel to form a battery box, and then the battery boxes are connected in series to form a battery module and increase the system voltage. 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.

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.

What are the characteristics of a battery storage system?

The internal resistance remains unchanged during battery discharge [38, 39]; (3) The walls of the container do not transfer energy and matter to the outside world, and are considered adiabatic and non-slip wall; (4) The source of cooling air is stable and continuous, and the energy storage system operates under stable conditions.

How many battery systems does a ship have?

The ship's power supply system is connected to a total of three containerized lithium battery systems, each with a battery capacity of 1540 kWh, and the 3D model is illustrated in Fig. 1. The containerized energy storage battery system comprises a container and air conditioning units.



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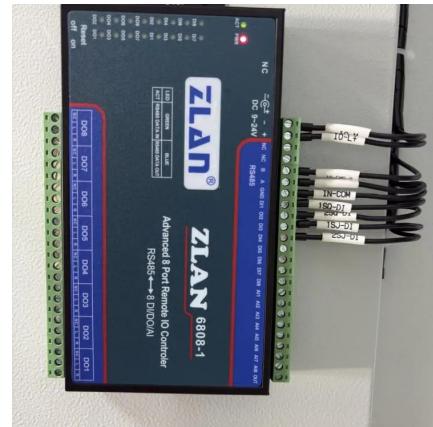
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