

CFD design of solar container energy storage system





Overview

Can CFD simulation be used in containerized energy storage battery system?

Therefore, we analyzed the airflow organization and battery surface temperature distribution of a 1540 kWh containerized energy storage battery system using CFD simulation technology. Initially, we validated the feasibility of the simulation method by comparing experimental results with numerical ones.

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.



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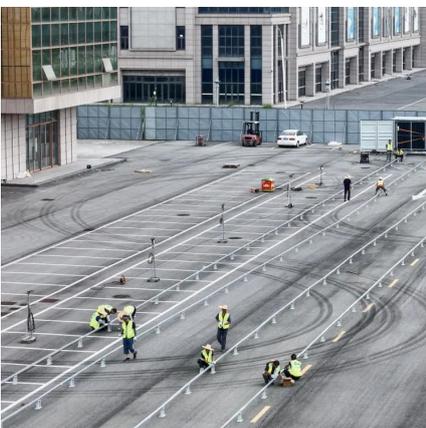
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