

SolarTech Power Solutions

Is container energy storage a dangerous good



Overview

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In the past few months, Gard has received several queries on the safe carriage of battery energy storage systems (BESS) on ships. In this insight, we highlight some of the key risks, regulatory requirements, and recommendations for shipping such cargo. According to the International Energy Agency.

However, due to the high safety risks associated with energy storage containers, their transportation poses new challenges to maritime safety. BESS refers to a mobile power supply device with lithium battery packs, lithium-ion battery packs, or lithium-metal battery packs installed and secured.

This research evaluated the hazards of commercially available energy storage system (ESS) types for transportation by the marine mode in enclosed vessel spaces according to the current International Maritime Dangerous Goods (IMDG) Code. Enclosed spaces, such as container cargo holds or closed.

The energy storage sector is experiencing dynamic growth, driving increasing interest in the logistical management of various storage systems, including battery energy storage systems (BESS). The challenges associated with their transportation stem from their above-standard weight and.

Driven by the global pursuit of "carbon peak" and "carbon neutrality" goals, containerized lithium-ion battery energy storage systems (energy storage containers) – as pivotal equipment in the new energy sector – are rapidly

expanding into international markets. However, due to their classification.

Lithium ion battery storage containers are susceptible to thermal issues, with thermal runaway being a major concern. When a battery overheats, it can trigger a chain reaction that may lead to fires or explosions. To combat this, lithium ion battery storage containers must incorporate advanced. Are battery energy storage systems a threat to maritime safety?

12. March 2025 In recent years, demand for the maritime transportation of containerised Battery Energy Storage Systems (BESS) has grown significantly. However, due to the high safety risks associated with energy storage containers, their transportation poses new challenges to maritime safety.

What are the risks of energy storage systems?

Overweight risks Due to the large size and mass of energy storage systems, individual units usually weigh over 30 tons. They face higher risks of dropping, impact and vibration during loading, unloading, and transportation.

What is a containerized lithium battery energy storage system?

SCU's containerized lithium battery energy storage system adopts a modular design, with the characteristics of high energy density and high efficiency. It can be widely used in various scenarios such as industrial and commercial energy storage, renewable energy grid connection, microgrid and off-grid power systems.

What is a battery energy storage system (BESS)?

The transportation of a Battery Energy Storage System (BESS) is one of the most important-but widely disregarded-steps for the completion of the project. Lithium-Ion Phosphate batteries (LFP) are designed to provide high amounts of power, but they can produce high amounts of heat that cause fires.

What is a battery energy storage system?

Battery energy storage systems (BESS) are the most common type of ESS where batteries are pre-assembled into several modules. BESS come in various sizes depending on their application and their usage is expected to rise considerably in coming years.

Does SCU have a lithium battery energy storage system container

certification?

Recently, SCU successfully obtained the UN3536 certification for lithium battery energy storage system container.

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