

# Is container energy storage a dangerous good



## Overview

---

Due to high energy density and low self-discharge, they are the preferred choice of modern industry, but due to reactivity and the possibility of fire, they are considered dangerous goods in class 9 (see below). 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. While these technologies offer numerous benefits, their inherent risks, particularly concerning thermal runaway and fire propagation, necessitate a robust regulatory and operational framework. Lithium batteries, used today in electric vehicles, consumer electronics, and. Batteries, especially lithium - ion batteries commonly used in BESS, can pose several dangers. These include the risk of thermal runaway, which is an uncontrolled self - heating process that can lead to fires or explosions. According to the International Energy Agency.

## Is container energy storage a dangerous good

---



### Requirements for Shipping Lithium Batteries 2025

Damaged EVs pose a significant fire risk (thermal runaway). They must be transported under strict conditions, often requiring battery removal or use of specialized fire-resistant containers (SP 376). ...

---

### Marine Transport of Energy Storage Systems

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 ...



---

### Containerized Lithium Battery Shipments

All lithium batteries are considered as 'Class 9 miscellaneous dangerous substances and articles'. The DG regulations clearly set out the required UN testing and criteria to be met for safe transportation ...



---

### Shipping battery energy storage

## systems -high energy, high risks?

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 ...

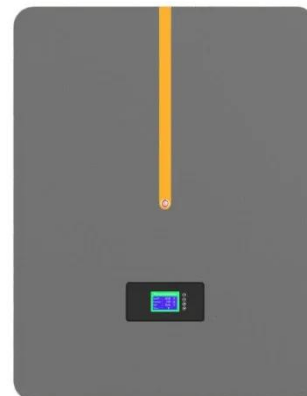


## Risks associated with transporting containerised Battery Energy Storage

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 ...

## Risks of transporting container energy storage cabinets

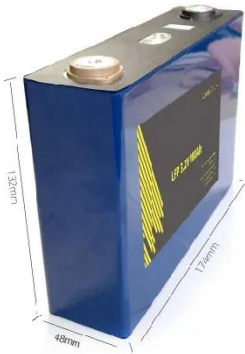
Although LIBs are often stored and transported at atmospheric pressure in ship containers, the findings provided ideas for the safe design of energy storage containers.



## Transport of Lithium Batteries in Containers - Risks and Specifics

Transport of lithium batteries in containers is a key component of modern logistics, yet it presents

extraordinary risks and requires comprehensive knowledge of regulations, safety measures, and ...



## CARRIAGE OF ENERGY STORAGE UNITS ON BULK CARRIERS

As the cargo is packaged, it will be governed by the provisions of the International Maritime Dangerous Goods code (IMDG). Lithium-Ion batteries are listed by the IMDG code as class 9 which covers ...



## UN3536 Guide for Shipping Lithium Battery Storage Containers

The article covers essential aspects to ensure adherence to international shipping regulations and minimize risks associated with transporting lithium battery energy storage systems ...

## What are the safety regulations for transporting a Battery Energy

It classifies BESS as dangerous goods and provides guidelines on how to package, label, and stow them on ships.

The code ensures that the batteries are properly secured to prevent movement during ...



---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://www.scelto.co.za>

