

# Energy storage battery shipping standards





## Overview

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The IMDG Code Amendment 42-24 is the cornerstone of the updated regulations, bringing significant changes to the classification, packaging, and handling of lithium-ion batteries and their associated technologies. What are the international standards for shipping batteries?

One of the primary international authorities is the International Air Transport Association (IATA), which provides stringent guidelines for shipping batteries, both standalone and those contained within devices. Another is the United Nations (UN), which has a series of recommendations for the transport of dangerous goods, including batteries.

What are the regulations for battery shipping by sea?

Another is the United Nations (UN), which has a series of recommendations for the transport of dangerous goods, including batteries. The International Maritime Dangerous Goods (IMDG) code also has a set of regulations for battery shipping by sea. Here's a quick rundown of what these regulations generally include:

What is a lithium battery guide for shippers?

LITHIUM BATTERY GUIDE FOR SHIPPERS A Compliance Tool for All Modes of Transportation Revised October 2024 [WWW.PHMSA.DOT.GOV](http://WWW.PHMSA.DOT.GOV) 2

INTRODUCTION This compliance resource was prepared to assist a shipper to safely package lithium cells and batteries for transport by all modes of transportation according to the latest regulatory requirements.

What are the labeling standards for transported batteries?

Labeling standards for transported batteries are an essential part of safety protocols. They inform handlers of the contents and potential hazards, aiding in the appropriate handling and storage during transport. In adhering to these regulations, we need to keep in mind a few key points: Each label must be durable, visible, and printed in English.



What are the shipping guides for lithium cells & batteries?

For the purposes of this document, the ways to describe and configure packages of lithium cells and batteries, including smaller cells and batteries, are divided between ten distinct, standalone shipping guides. The shipping guides are numbered Guide 01 - Guide 10.

What are the new packaging requirements for lithium ion batteries?

Revised Packing Instructions: More stringent requirements for UN-certified packaging, capable of withstanding specific drop tests. State of Charge (SoC) Emphasis: Increased scrutiny on the SoC for standalone lithium-ion battery shipments, with a general requirement not to exceed 30% of rated capacity.



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### **Complete battery storage systems for retrofit and newbuilt ...**

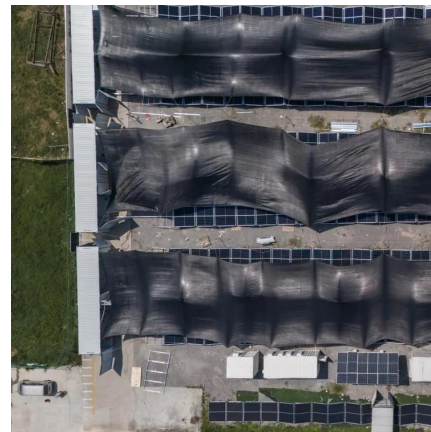
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What is a battery energy storage system (BESS) container design sequence? The Battery Energy Storage System (BESS) container design sequence is a series of steps that outline the design ...

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### [Requirements for Shipping Lithium Batteries 2025](#)

The rapid global adoption of electric vehicles (EVs), lithium-ion batteries, and Battery Energy Storage Systems (BESS) has led to significant advancements in maritime transport ...

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### [How Do Regulations Affect Lithium Battery Shipping?](#)

The shipping of lithium batteries is significantly impacted by stringent regulations due to their classification as dangerous goods. Understanding





these regulations is crucial for ...

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### [Shipping battery energy storage systems](#)

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 ...

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### **U.S. Codes and Standards for Battery Energy Storage Systems**

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Laws, Regulations and Best Practices for Lithium Battery Packaging, Transport and Recycling in the United States and Canada Scope The Regulatory Subcommittee of the NAATBatt Battery ...

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### **Battery Shipping: Classification, Best Practices, and more , Maersk**

This guide explains everything you need to know to stay compliant and avoid costly delays - from battery classifications to mode-specific rules and best practices for shipping safely.

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