

# **Are container energy storage batteries dangerous goods**





## Overview

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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.

How do I identify a lithium battery hazardous goods container?

Except for vehicles driven by lithium batteries (pure electric or hybrid), containers containing lithium battery hazardous goods must have Class 9 hazardous goods labels and UN number markings affixed to each side and each end of the container (for lithium-ion battery energy storage systems, on two opposite sides).

What is a Dangerous Goods label for lithium batteries?

Except for containerized lithium-ion battery energy storage systems and vehicles powered by lithium batteries (pure electric or hybrid), packages containing lithium batteries or battery packs must be affixed with the 9A dangerous goods label as shown in Figure 4 or the lithium battery mark as shown in Figure 5, as required.

Are lithium-ion batteries a dangerous cargo?

BESS with lithium-ion batteries is classed as a dangerous cargo, subject to the provisions of the IMDG Code. In the IMDG Code, there are multiple descriptions and shipping names for lithium cells and batteries, depending on their chemistry and whether they are stand-alone, within equipment, contained within vehicles or cargo transport units.



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### **Risks associated with transporting containerised Battery Energy Storage**

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 ...

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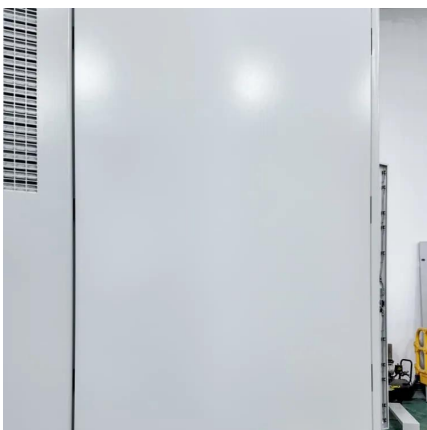
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DECLARATION THE ENERGY STORAGE UNIT TYPICALLY COMPRISES A BOX OR CONTAINER OF VARYING SIZES, WITHIN WHICH THE LITHIUM-ION ...

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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 ...

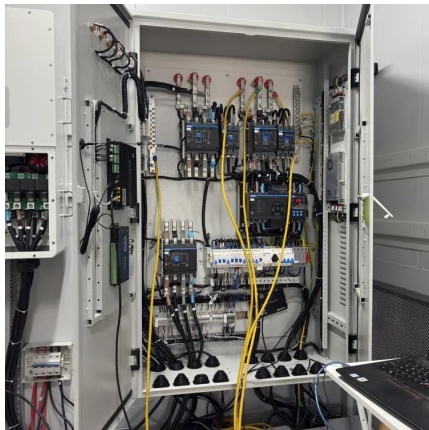
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I. Hazardous or Non-Hazardous? Battery Classification Comes First Before discussing the transport classification of batteries, we must clarify one key question: Which types of batteries are classified as dangerous ...

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[UN 3480, UN3481, UN3090, UN3091, UN3171, UN3536: ...](#)

Lithium battery products are classified as Class 9 dangerous goods and divided into several categories such as lithium batteries, lithium battery equipment, battery-powered vehicles, and ...

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**Are all batteries considered hazardous goods? These types ...**

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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 ...

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