



IMK CONTAINERS

Are container energy storage batteries dangerous goods





Overview

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

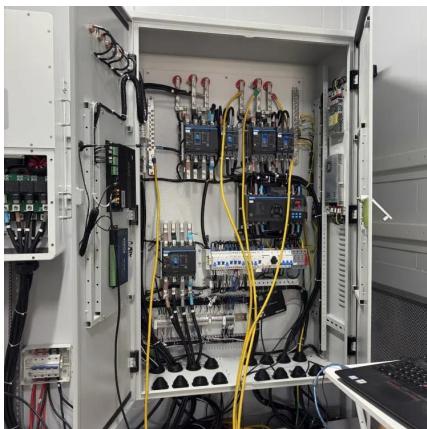
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In the past few months, Gard has received several queries on the safe carriage of battery energy storage systems (BESS) on ships. In this

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[Are all batteries considered hazardous ...](#)



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

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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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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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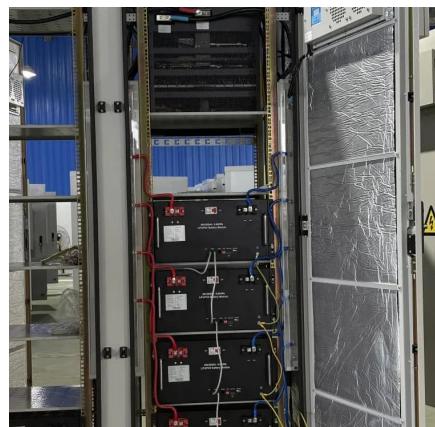


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Comprehensive Guide to Safe Shipping of Lithium Battery Energy Storage

Introduction Driven by the global pursuit of "carbon peak" and "carbon neutrality" goals, containerized lithium-ion battery energy storage systems (energy storage containers) - ...

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Today the preferred battery energy source for many manufacturers is lithium-ion batteries because they are relatively inexpensive, lightweight and rechargeable. Lithium-ion ...

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