

Are container energy storage batteries dangerous goods





Overview

Because batteries are classified as dangerous goods due to fire and explosion risk. That means stricter packaging, labelling, documentation, and carrier approvals. Why are batteries classified as dangerous goods?

Because batteries are classified as dangerous goods due to fire and explosion risk. That means stricter packaging, labelling, documentation, and carrier approvals. 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.

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 to secure a lithium battery container?

Segregation: It is recommended to segregate lithium battery containers from those containing other dangerous goods, particularly flammables, by at least one container bay (6 meters). Securing: All cargo must be secured within its container and on the vessel in accordance with the CTU Code and the vessel's Cargo Securing Manual.

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.

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).

Do I need A Dangerous Goods Declaration If I ship batteries?

When shipping batteries with equipment, companies must include a maximum number of batteries needed to power the equipment along with two extra sets. If the total amount of cells is equal to or less than 20 watt-hours (Wh) and the batteries are equal to or less than 100 Wh, a Dangerous Goods Declaration (DGD) is not required.



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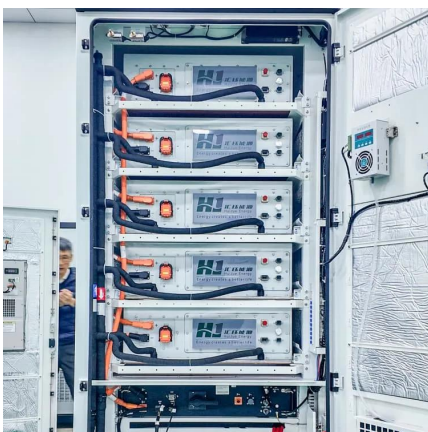


Shipping battery energy storage systems

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 ...

Safe transport of battery storage systems on board ships

Siddharth Mahajan, Senior Head of Loss Prevention, Singapore, highlights that BESS with lithium-ion batteries are classified as dangerous ...



Risks associated with transporting containerised ...

According to the International Maritime Dangerous Goods Code (IMDG Code), BESS is classified as Class 9 hazardous goods, with the United ...

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 ...

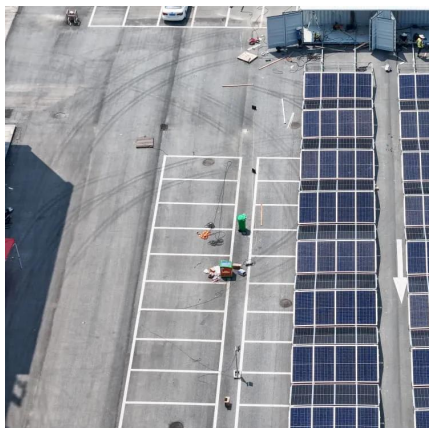


Bulletin TMD Structure de classification

What dangerous goods safety marks are required for batteries shipped by marine transport? To learn about dangerous goods safety marks requirements for batteries transported by vessel ...

UN3481 and UN3536: Comprehensive Analysis of Dangerous Goods

UN3481 and UN3536 are all classified as Class 9 dangerous goods and need to provide UN38.3 test report during the transportation. But there are several differences ...



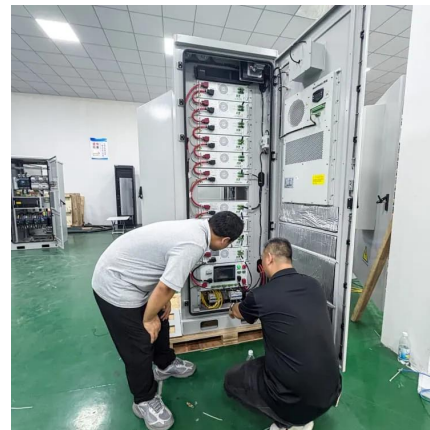
Battery Logistics Solutions

Classified as dangerous goods due to their chemical makeup, batteries require special handling, storage, transportation, recycling and end-of-life protocols to ensure safety. Carriers also need ...



Comprehensive Guide to Safe Shipping of Lithium ...

However, due to their classification as Class 9 dangerous goods, lithium-ion batteries pose significant risks of thermal runaway and complex ...



Guidelines for shipment of Lithium-Ion Batteries by sea published

The Lithium-ion Batteries in Containers Guidelines seek to prevent the increasing risks that the transport of lithium-ion batteries by sea creates, providing suggestions for identifying such ...

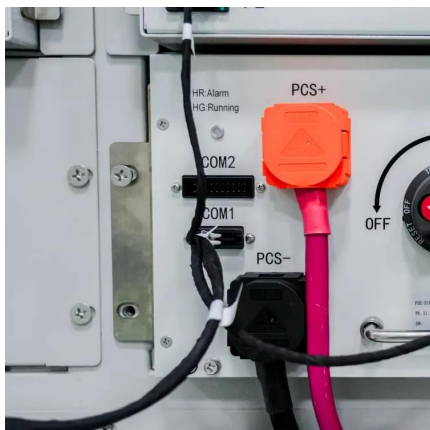
BATTERY TRANSPORT & STORAGE (BTS) CONTAINER

Used lead acid batteries are a Controlled Hazardous Waste and a designated Dangerous Good and as such must be stored, handled, transported and recycled in accordance with ...



Risks of transporting container energy storage cabinets

Are battery energy storage systems safe on ships? Gard published that in the past few months, has received several queries on the safe carriage of battery energy storage systems (BESS) ...



Shipping Lithium-Ion Batteries: UN3480 & UN3481 Regulations

If the total amount of cells is equal to or less than 20 watt-hours (Wh) and the batteries are equal to or less than 100 Wh, a Dangerous Goods Declaration (DGD) is not required.



Risks associated with transporting containerised Battery Energy Storage

According to the International Maritime Dangerous Goods Code (IMDG Code), BESS is classified as Class 9 hazardous goods, with the United Nations number UN3536. The ...

Shipping Requirements for Lithium Battery Dangerous Goods

Learn about the shipping requirements for lithium battery dangerous goods via sea freight, including classifications, general requirements, container packing standards, labeling, and port ...





Comprehensive Guide to Safe Shipping of Lithium Battery Energy Storage

However, due to their classification as Class 9 dangerous goods, lithium-ion batteries pose significant risks of thermal runaway and complex emergency response ...

Australian Lithium Battery Shipping & Transport ...

Australian Lithium Battery Shipping Regulation by Road or Rail The Australian Code for the Transportation of Dangerous Goods by road or rail (ADGC), ...



Lithium Battery Regulations and Standards in the EU: An Overview

Guide to regulations, standards, lab testing and labelling requirements for lithium batteries sold in the European Union.

Shipping Requirements for Lithium Battery Dangerous ...

Learn about the shipping requirements for lithium battery dangerous goods via sea freight, including classifications, general requirements, container packing ...



Dangerous yet uniquely challenging cargo: how does the logistics ...

The energy storage sector is experiencing dynamic growth, driving increasing interest in the logistical management of various storage systems, including battery energy ...



Safe Transport of Lithium Batteries in Plastic Containers

From ORBIS: the IonPak® dangerous goods container: With the IonPak® dangerous goods container, ORBIS has developed a smart alternative to conventional ...



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

These batteries are prone to fire, leakage, or short circuits, which is why they are classified as dangerous goods (DG) and are subject to strict transport regulations.



Battery testing & certification to national

Battery testing and certification of energy storage systems - electrical, mechanical, environmental, abuse - in our state-of-the-art laboratories.



Containerized Battery Energy Storage System ...

Containerized Battery Energy Storage Systems (BESS) are essentially large batteries housed within storage containers. These systems ...

UN3481 and UN3536: Comprehensive Analysis of Dangerous ...

UN3481 and UN3536 are all classified as Class 9 dangerous goods and need to provide UN38.3 test report during the transportation. But there are several differences ...



Transporting lithium-ion batteries: identifying and ...

Batteries and devices that contain batteries are classified as dangerous goods and have to comply with specific packaging and shipping ...



Managing Lithium Battery Risks: From Supply Chain to Storage

Lithium Battery Risks Lithium-ion batteries power essential devices across many sectors, but they come with significant safety risks. Risks increase during transport, handling, use, charging and ...



Guidelines for shipment of Lithium-Ion Batteries by ...

The Lithium-ion Batteries in Containers
Guidelines seek to prevent the increasing risks that the transport of lithium-ion batteries by sea creates, providing ...

Shipping Lithium-Ion Batteries: UN3480 & UN3481 ...

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Carriage of Lithium-Ion Energy Storage Units

DECLARATION The energy storage unit typically comprises a box or container of varying sizes, within which the Lithium-ion batteries designed ...

Shipping battery energy storage systems

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Battery Shipping: Classification, Best Practices, and ...

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