

## ContainerPower Energy Solutions

# Customs classification of lithium battery energy storage cabinets



**51.2V 300AH**

## Overview

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Transport must comply with the International Maritime Dangerous Goods (IMDG) Code, which classifies these cabinets as Class 9 hazardous materials (UN 3536). What are the classification and shipping requirements for lithium-ion batteries?

The classification and shipping requirements for lithium-ion batteries depend on their size and energy capacity (Watt-hours). For standalone batteries. Strict UN-certified packaging. IUMI strongly supports the SoC limit of 30% for air freight and advocates similar principles for maritime transport.

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.

What is the classification of rechargeable lithium-ion cells?

Regarding the independent classification of the rechargeable lithium-ion cells, we note that heading 8506, HTSUS, which provides for primary cells and primary batteries, and heading 8507, HTSUS, which provides for electric batteries and parts thereof, are both under consideration.

Are lithium-ion batteries transforming the maritime industry?

The maritime industry is witnessing a significant shift in cargo composition, with lithium-ion batteries and their applications (EVs, BESS) becoming increasingly prevalent.

What are the risks associated with the carriage of lithium-ion batteries?

The primary risk associated with the carriage of lithium-ion batteries is thermal runaway. This is a chemical reaction in which an increase in temperature within a battery cell causes a further, uncontrolled increase in

temperature. This process can be initiated by manufacturing defects, physical damage, or overcharging. The consequences include:.

What is un 3536 - lithium batteries inserted in cargo transport unit?

UN 3536 - LITHIUM BATTERIES INSTALLED IN CARGO TRANSPORT UNIT. Robust Protection: BESS units must be housed in substantial, protective enclosures, often specially designed containers, to prevent physical damage and contain potential fires. IUMI highlights the risk of container damage impacting internal batteries.

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