

Transportation of Lithium Battery Storage Cabinets



Article Overview

Transporting lithium battery storage cabinets requires strict adherence to UN3536 regulations, IMDG Code compliance, proper packaging, and risk mitigation measures to prevent thermal runaway and ensure safe maritime or intermodal shipping.

Regulatory Compliance

Lithium battery storage cabinets, particularly State of Charge (SoC) energy storage containers, are classified under UN3536 as dangerous goods due to their high energy density and potential fire hazards during transport . Key regulatory requirements include:

- **UN38.3 Testing:** All lithium batteries must pass rigorous tests for vibration, shock, temperature extremes, and short-circuit resistance, certified by an accredited third-party facility .
- **IMDG Code Compliance:** The International Maritime Dangerous Goods (IMDG) Code mandates proper classification, labeling, and documentation for maritime transport, including accurate dangerous goods declarations with UN number, packaging type, and quantity .
- **State of Charge (SoC) Limits:** For standalone lithium-ion battery shipments, SoC should generally not exceed 30% of rated capacity to reduce the risk of thermal runaway .
- **Special Provisions for Damaged or Defective Batteries:** SP 376 and SP 377 outline packaging and labeling requirements for damaged, defective, or end-of-life batteries .

Article Content

2026 Lithium Battery Transport Regulations | UN3480/UN3481 Ocean

2026 lithium battery transport regulations: UN3480/UN3481 sea and air shipping rules. Complete guide covering IMDG Code, IATA

Lithium Ion Battery Shipping & Storage Cases

Cases2Go has solutions to transport lithium and lithium-ion batteries safely. Choose from a vast selection of UN/IATA-certified lithium

Lithium Battery Guide

Each distinct shipping guide in this document refers to the regulatory requirements for a specific lithium cell/ battery type,

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 Lithium-Ion Transportation Guide

Whether shipping power tool replacement batteries, mobile phone batteries, robotic vacuum batteries, self-balancing scooter

Requirements for Shipping Lithium Batteries 2025

China is formalizing requirements for the transport of BESS through a new Group Standard from the China Navigation Society, the

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