



Power requirements for energy storage batteries shipped by air

This document provides awareness of the International Civil Aviation Organization's (ICAO) 2023-2024 Edition of the Technical Instructions (Doc 9284) requirements for lithium batteries.

Always use UN 38.3 certified lithium batteries and follow IATA packaging and labeling rules to ensure safe and legal air shipment. Ship lithium batteries at no more than 30% charge and ...

Each distinct shipping guide in this document refers to the regulatory requirements for a specific lithium cell/battery type, configuration, and size. In this way, a shipper will easily find the applicable ...

When shipping lithium-ion batteries without equipment, stricter requirements apply because the risks are higher. Batteries must be packed to prevent short circuits, often with non-conductive dividers or caps. ...

These high-capacity devices demand strict adherence to international regulations, specialized packaging, and safety protocols. This guide breaks down the critical shipping standards you need to ...

PHMSA prepared this guide with the help of FAA, and with input from experts in the battery, airline, and shipping industries, to assist you in safely packaging batteries for transport by air.

Our goal is for you to become familiar with the current Lithium Batteries & Cells Shipping Guide by following these simple instructions and for you to use it as an ongoing source for the proper ...

Shipping batteries? Learn about their classification, preparation for transport, various shipping modes involved, and FAQs to ensure a smooth transit.

In accordance with Special Provision A201, lithium metal cells or batteries that meet the specified quantity limits may be shipped on a passenger aircraft under an approval issued by the authority of ...

As of January 1, 2025, the IATA's 66th Dangerous Goods Regulations (DGR) recommends that lithium-ion batteries--whether packed with equipment (UN 3481) or contained in equipment--be shipped ...



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