



Can energy storage batteries be charged when transported by air





Overview

Primary (non-rechargeable) lithium batteries and cells are forbidden for transport aboard passenger carrying aircraft as cargo. In accordance with Special Provision A201, lithium metal cells or batteries that meet the specified quantity limits may be. Rechargeable lithium batteries (also called lithium ion (Li-ion), or secondary lithium batteries), and non-rechargeable lithium batteries (also called lithium metal, or primary lithium batteries), provide more energy and a longer operating life than other battery chemistries. Research by Underwriters Laboratories¹ and the FAA² 3 as well as other unpublished data indicate that. 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. This document does not replace any regulation and is not considered training. Due to their potential fire risk, they are considered dangerous goods and must follow international rules for packaging, labelling, documentation, and approvals.



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Interactive Guide to Shipping Lithium Batteries

If the Watt-hour rating isn't clearly marked on your battery case, and the information isn't included on a battery specification or Safety Data Sheet, you can simply determine the battery's Wh-rating by ...

[Safe lithium batteries transport by air , DSV Insights](#)

The packaging must meet special requirements and the battery itself must not be charged more than 30 percent. In many cases, transport by passenger plane is prohibited.



Battery Guidance Document

Currently, it is strongly recommended that when offered for air transport, equipment that is packed with, or contains, lithium-ion batteries, and vehicles powered by lithium-ion batteries have the batteries at ...



[Transporting Lithium Batteries By Air: Safety Guidelines And](#)

Most regulations require that batteries be transported at no more than 30% charge to reduce fire risk. Understanding these guidelines is crucial for compliance and safe air transport of ...



[Safe Transportation of Lithium-ion Batteries: Shipping Regulation](#)

Air transport restrictions often include capacity limitations, state-of-charge requirements (typically 30% maximum), and complete prohibitions on damaged or defective batteries.



[Battery Shipping: Classification, Best Practices, and more , Maersk](#)

The rules are especially strict for air transport due to the elevated fire risks associated with the confined environment and altitude. In the following sections, we highlight the key classifications, ...



Requirements for Shipping Lithium Batteries 2025

State of Charge (SoC): Strongly advocates for shipping batteries at a low SoC (ideally 30%-50%) to reduce energy available for a thermal event. The growing EV market has necessitated a dedicated ...

Shipper Guide Batteries Air



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.



[2025: New IATA State-of-Charge Rules for Air Shipment of Lithium-Ion](#)

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 ...

Energy Content of Lithium Batteries in Air Cargo

Lithium-Ion Batteries packed in equipment (UN3481) can be carried as cargo on both passenger and cargo aircraft and have no SOC limitation when offered for air transport, although the ICAO Technical ...





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