

# Icao lithium battery guidance

Can lithium batteries be transported by air?

More information about the safe transport of lithium batteries by air can be found in the IATA Lithium Battery Guidance Document ([IATA Lithium Battery Guidance Document](#)). Because of the huge, worldwide demand for lithium batteries, billions of them are shipped annually as air cargo.

How many lithium batteries are in cargo shipments?

The IATA Dangerous Goods Board previously estimated that, on some routes, lithium batteries were present in some 25% of cargo shipments. This estimate only takes into account those lithium batteries that are known to be transported (i.e. those that have been declared to the operator).

What are the shipping requirements for a lithium ion battery?

All packages prepared in accordance with Packing Instruction 968, Section IA, IB and II, must bear a Cargo Aircraft Only label, in addition to other required marks and/or labels. All lithium ion cells and batteries (UN 3480 only) must be shipped at a state of charge (SoC) not exceeding 30% of their rated capacity.

Are lithium batteries a risk to cargo aircraft?

The incidents and accidents that have occurred where lithium batteries are known to have been a factor (or were present on board) have highlighted the vulnerability of cargo aircraft to main deck cargo compartment fires and, in particular, how quickly a situation can become catastrophic.

Can a lithium battery be transported aboard a passenger-carrying aircraft?

In accordance with US Variation 2, primary (non-rechargeable) lithium metal batteries and cells (UN3090) are forbidden for transportation aboard passenger-carrying aircraft. Such batteries transported in accordance with Section I of Packing Instruction 968 must be labelled with the cargo aircraft only label.

What are the classification criteria for lithium batteries?

As of 1 January 2013, the classification criteria for lithium batteries stipulate that cells and batteries must be manufactured under a quality management program. DGR 3.9.2.6 includes the elements that must be included in such a program.

The purpose of this document is to provide guidance for complying with provisions applicable to the transport by air of lithium batteries as set out in the IATA Dangerous Goods Regulations. 2022 Lithium Battery Guidance Document, Transport of Lithium Metal and Lithium Ion Batteries | SKYbrary Aviation Safety

The guidance document on the carriage of battery-powered cargo tracking devices and data-loggers has been revised to include reference to EASA guidance and the revised FAA advisory circular as well as to incorporate revisions to the 62nd edition (2021) of the IATA DGR. The guidance document has been further revised following the adoption of an ...

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A154 Lithium batteries identified by the manufacturer as being defective for safety reasons, or that have been damaged, that have the potential of producing a dangerous evolution of heat, fire or short circuit are forbidden for transport (e.g. those being returned to the manufacturer for safety reasons).

IATA Lithium Battery Guidance Document - 2024 OSS/Cargo Page 2 01/01/2024 Definitions Lithium Battery - The term "lithium battery" refers to a family of batteries with different chemistries, comprising many types of cathodes and electrolytes. For the purposes of the DGR they are separated into: Lithium metal batteries.

Mobility Aid Guidance Document . Transport of Battery-Powered Wheelchair and Mobility Aid Carried by ... This document is based on the provisions set out in the 2023 - 2024 Edition of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air (Technical Instructions) and the 64 ... The Watt-hour rating of a lithium ion ...

IATA Lithium Battery Guidance Document - 2019 Rev 1 APCS/Cargo Page 5 12/12/2018 The following table provides details of the information required in the test summary: Lithium cell or battery test summary in accordance with sub-section 38.3 of Manual of Tests and Criteria The following information shall be provided in this test summary:

2024 Lithium Batteries Regulations: Watt Hour Rating. Step 3 - What is the capacity (Watt Hour\* rating) of your battery? Tip: Click the below buttons to get more details on packaging and labelling / marking. Cells <= 20 Wh or Batteries <= 100 Wh. \*The Watt Hours must be indicated on the outside of the battery, for batteries

when lithium battery powered data loggers are contained in cargo; and 2. recommendations with respect to the use of battery -powered devices that are active during transport. ... IATA Battery Powered Data Logger Guidance Document - 2020, Rev. 1 APCS/Cargo Page 4 04/02/2021 . Consignment, one or more packages of dangerous goods accepted by an ...

2022 Lithium Battery Guidance Document Transport of Lithium Metal and Lithium Ion Batteries . Revised for the 2022 Regulations . Introduction This document is based on the provisions set out in the 2021-2022 Edition of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air (Technical Instructions) and the 63. rd

IATA Battery Powered Data Logger Guidance Document - 2017 V1 APCS/Cargo Page 4 31/01/2017 Figure 2 - Lithium Battery Handling Label \* Place for "Lithium ion battery" and/or "Lithium metal battery" Where the packages are of dimensions such that they cannot bear the full size lithium battery

IATA has released an updated Lithium Battery Guidance Document to assist shippers in understanding requirements related to the transport of lithium batteries. The airline association said the guidance document includes updated and additional FAQs for shippers to learn how to comply with dangerous good regulations.



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Mobility Aid Guidance Document . Transport of Battery-Powered Wheelchair and Mobility Aid Carried by Passengers . Revised for the 2022 Regulations . Introduction This document is based on the provisions set out in the 2021 -2022 Edition of the ICAO Technical Instructions ... The lithium battery(ies) can either remain installed in the mobility ...

respect to lithium batteries may also be found in the IATA lithium Battery Shipping Guidelines (LBSG). In addition to the content from the DGR, the LBSG also has ... 2016 Lithium Battery Guidance Document 7 January 2016 . State of Origin and the State of the Operator under the written conditions established

IATA Lithium Battery Guidance Document - 2014 APCS/Cargo Page 2 15/12/2014 Definitions Lithium Battery - The term "lithium battery" refers to a family of batteries with different chemistries, comprising many types of cathodes and electrolytes. For the purposes of the DGR they are separated into: Lithium metal batteries.

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.

IATA Lithium Battery Guidance Document - 2018 APCS/Cargo Page 4 06/02/2018 Power Bank (power pack, mobile battery, etc.). These are portable devices designed to be able to charge consumer devices such as mobile phones and tablets. For the purposes of this guidance document and the IATA Dangerous Goods Regulations,

IATA 2023 Lithium Battery Guidance Document. More than ever, lithium batteries power things around us. Whether it be in our homes or at our business. One \*source suggests that the global lithium-ion battery market size will reach 135.1 billion USD by 2031. The growth is expected in renewable energy and electric vehicles.

To assist shippers in understanding the complete requirements related to the transport of lithium batteries, including packing instructions, IATA has prepared the updated Lithium Battery Guidance Document. This 2022 guidance document includes updated and additional FAQs for shippers to learn how to comply with the 63rd (2022) Edition of the IATA ...

IATA Lithium Battery Guidance 2022 Below are excerpts from IATA's 2022 Lithium Battery Guidance Document, updated to reflect the revised regulations that take effect April 1. Lithium-ion batteries and cells shipped separately (UN 3480) must be prepared according to Section IA or IB of PI 965, as shown below.

IATA Lithium Battery Guidance Document - 2016 V2 APCS/Cargo Page 4 09/03/2016 : Classification (DGR 3.9.2.6) Lithium batteries are classified in Class 9 - Miscellaneous dangerous goods as: o UN 3090, Lithium metal batteries; and o UN 3480, Lithium ion batteries:

IATA Battery Powered Data Logger Guidance Document - 2020 APCS/Cargo Page 3 07/01/2020 Lithium-ion

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batteries (sometimes abbreviated Li-ion batteries) are a secondary (rechargeable) battery where the lithium is only present in an ionic form in the electrolyte. Also included within the category of lithium-ion batteries are lithium polymer ...

IATA Lithium Battery Guidance Document - 2021. APCS/Cargo Page 3 08/12/2020 . of Origin and the State of the Operator under the written conditions established by those authorities, see Special Provision A331; and (b) may be shipped as cargo on a passenger aircraft under an approval issued by the authority of the

IATA Lithium Battery Guidance Document - 2017 APCS/Cargo Page 2 15/12/2016 Definitions Lithium Battery - The term "lithium battery" refers to a family of batteries with different chemistries, comprising many types of cathodes and electrolytes. For the purposes of the DGR they are separated into: Lithium metal batteries.

these do not merit a blanket ban. IATA with ICAO has developed comprehensive guidance for cabin crew on how to safely deal with a fire in the cabin involving a lithium-battery-powered PED. o Consumers should only buy lithium batteries from reputable sources as many counterfeit or substandard lithium batteries have been involved in incidents.

This guide provides awareness of the International Civil Aviation Organization's (ICAO) 2023-2024 Edition of the Technical Instructions (Doc 9284) requirements for lithium batteries. ... related to the transport of lithium batteries, including packing instructions, IATA has prepared the updated Lithium Battery Guidance Document (pdf).

IATA Lithium Battery Guidance Document - 2014 APCS/Cargo Page 2 05/11/2013 : Definitions : Lithium Battery - The term "lithium battery" refers to a family of batteries with different chemistries, comprising many types of cathodes and electrolytes. For the

Guidance Document - Transport of Lithium Batteries Revised 10 August 2009 A99 Irrespective of the limit specified in Column L of the List of Dangerous Goods (Subsection 4.2), a lithium battery or battery assembly that has successfully passed the tests specified in the UN Manual of Tests and Criteria, Part III, sub-section 38.3 and that

Baggage equipped with a lithium battery, other than lithium button cells: oIf the baggage is to be checked in, the lithium battery must be removed from the baggage and the lithium battery must be carried in the cabin; or oThe baggage must be carried in the cabin.

Lithium metal batteries oAlso called primary lithium batteries oNon-rechargeable (generally) oRegulated based on lithium metal content in grams and quantity of cells and batteries oUsed to power pace makers, watches, calculators, cameras etc. 10

o Revision to the lithium battery mark. A telephone number is no longer required on the lithium battery mark.

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Lithium battery marks with a phone number may continue to be applied until December 31, 2026. o Packing Instructions 965 and 968 - removal of Section II o Packing Instructions 966 and 969 - clarification on protection against ...

IATA Lithium Battery Guidance Document - 2020 APCS/Cargo Page 7 3/12/2019 The following table provides details of the information required in the test summary: Lithium cell or battery test summary in accordance with sub-section 38.3 of Manual of Tests and Criteria The following information shall be provided in this test summary:

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