

# **Lithium batteries cargo**





## Overview

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Baggage installed with non-removable batteries exceeding 0.3 g lithium metal or 2.7 Wh is forbidden for carriage. When the baggage is to be checked in, the lithium battery must be removed and carried in the cabin as a carry-on item. Can a lithium ion battery be shipped as cargo?

may be shipped as cargo on a passenger aircraft under an approval issued by the authority of the State of Origin, State of Destination and State of the Operator where the lithium ion cells or batteries that meet the quantity limits of Section II of PI 965.

Should lithium batteries be shipped by air?

Regulations for shipping lithium batteries by air are in place to protect everyone who would come in contact with a lithium battery shipment while it is being transported as air cargo; with training being required for everyone in this supply chain, to protect the aircraft, and the people in the aircraft, that is carrying the batteries.

Can a lithium battery be carried on a plane?

Baggage installed with non-removable batteries exceeding 0.3 g lithium metal or 2.7 Wh is forbidden for carriage. When the baggage is to be checked in, the lithium battery must be removed and carried in the cabin as a carry-on item. More information about the Smart Baggage with Integrated Lithium Batteries and/or Electronics (pdf).

What is a lithium battery?

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. Are generally primary (non-rechargeable) batteries that have lithium metal or lithium compounds as an anode.

Is lithium battery shipping dangerous?



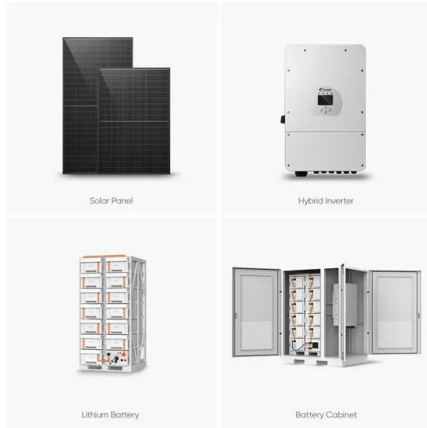
While classified as a dangerous good, lithium battery shipping takes very specific requirements. that you can find inside the Dangerous Goods Regulations. However, if you only ship lithium batteries you can purchase the Lithium Batteries Shipping Regulations as a standalone manual.

Can lithium batteries be packed by themselves?

Lithium metal batteries packed by themselves (not contained in or packed with equipment) (Packing Instruction 968) are forbidden for transport as cargo on passenger aircraft).



## Lithium batteries cargo

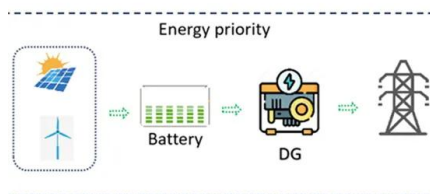


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?? PT Jasa Angkasa Semesta Tbk(PT JAS)????????????????(World Cargo Symposium 2022) ???IATA ? ...

### IATA

????????????????(CAO)?????,?????????,????????2019  
????? ?????????? ??? ??????,????????????? ...



### Dangerous Goods Transport Regulations for Lithium Cells and Batteries

\*3 The words "Lithium-ion batteries in compliance with Section II of PI 965" and "Cargo Aircraft Only" or "CAO" must be included on the air waybill, when an air waybill is used. The information should be shown in the "Nature and Quantity of Goods" box of the air waybill.

### Shipping lithium batteries by air

The Center of Excellence for Independent Validators Lithium Batteries (CEIV Li-batt) is a certification program spearheaded in part by IATA to address safety concerns and help shippers, freight forwarders, cargo handling ...



### Small Vehicles Powered by Lithium Batteries Cargo Provisions

1 Small Vehicles Powered by Lithium Batteries - Cargo Provisions 26 January 2021 Small Vehicles Powered by Lithium Batteries - Cargo Provisions This guidance is in response to questions raised by shippers, freight forwarders and operators regarding the

### How to ship lithium batteries by air--in 2022 and beyond

Since 2016, when the International Civil Aviation Organization (ICAO) implemented drastically more restrictive global regulations on shipping lithium batteries by air, shippers have adapted and done their best to comply. Meanwhile, regulatory agencies continue to update regulation in an effort to keep lithium battery transport by air as safe as possible. The ...



### [Hactl makes lithium battery handling safer](#)

Hong Kong Air Cargo Terminals Limited (Hactl) is taking new steps to mitigate the risks of handling lithium batteries in air cargo. The Hong Kong The new zone will feature LED signage across its multiple floor levels, to ensure all battery cargo is correctly stored and



### Transportation of Lithium Batteries

As such, Lufthansa Cargo would like to provide information on which lithium batteries are accepted for transportation by Lufthansa Cargo. Effective 01 April 2022, following were removed from regulations: UN3090 Section II (EBM), and UN3480 Section II (EBI).



### Spare batteries , Baggage information

Example:  $2.38Ah \times 14.4V = 34 Wh$  for a laptop computer lithium-ion battery) Lithium batteries with no or unclear marking of Watt-hour (Wh) rating or Lithium Content (LC) will be refused carriage. 2. Must meet the United Nations (UN) test requirements specified.

### Lithium Batteries Guidance

2024 Lithium Batteries Regulations: Battery Types. Step 1 - What type of battery are you shipping? Tip: Click the below buttons to get more details on each type of batteries. Lithium ion ...



### Lithium ion metal batteries Chart

(2) "Lithium ion batteries in compliance with SectionIIof PI965 " "Cargo Aircraft Only" (3) "Lithium ion batteries in compliance with SectionIIof PI968 " "Cargo Aircraft Only" ?More than 2.5kg will be Section IB.



## Transport of Lithium Metal and Lithium Ion Batteries

Lithium metal batteries packed by themselves (not contained in or packed with equipment) (Packing Instruction 968) are forbidden for transport as cargo on passenger aircraft).



### LITHIUM BATTERIES (UN3090, UN3091, UN3480, UN3481)

Lithium ion batteries manufactured after 31DEC2011 must be marked with the Watt hour rating on the outside case. Special Provisions o UN3090 -188, 230, 310, 376, 377, 387, 636

### LITHIUM ION BATTERIES UN 3481 (RLI, ELI)

LITHIUM ION BATTERIES RBI-CAO (RU-03):  
Dangerous goods declaration Section IA Package limit: ??? = 35 kg UN- package required (PG II performance standard) Section IB Package limit: CAO a) 10 kg and b) more than 8 cells with > 2,7 Wh



### Lithium ion metal batteries Chart

ANA Cargo shall not be held responsible for the accuracy, reliability or currency of this Chart. (3) "Lithium ion batteries in compliance with Section II of PI 9xx" Overpack The overpack may also contain packages of dangerous goods, other than dangerous



## How Cathay Cargo flies lithium-ion battery shipments to the ...

Lithium-ion batteries requires care and expertise to safely ship. As they become more common in cargo, Cathay ensures safety while providing flexibility.



### Packing Instruction 965

Chapter 11 4-11-25 2017-2018 EDITION Packing Instruction 965 Cargo aircraft only for UN 3480 1. Introduction This entry applies to lithium ion or lithium polymer batteries. This packing instruction is structured as follows: -- Section IA applies to lithium ion cells

### [> INFO CENTRE > GUIDANCE & BEST PRACTICE](#)

Lithium Battery Image Library NEW Led by HAFFA and CLG, the Air Cargo Industry is now developing a Lithium Battery Image Library to assist the stakeholders to identify the high energy lithium-ion batteries and their screening images for safety purpose.



### Lithium Batteries

Lithium Batteries Due to their volatility, worldwide battery supply chains are becoming more and more severely regulated. Airlines are now heavily restricting their own shipping of lithium batteries, with some refusing them entirely. Those still shipping them are now under the microscope as regulations can come out every few months. As almost all portable electronics are powered by ...





## Cathay Cargo receives IATA's CEIV Lithium Batteries ...

Cathay Cargo receives IATA's CEIV Lithium Batteries accreditation in the air and on the ground. The CEIV quality-assurance adds to Cathay Cargo's existing, industry-leading mitigations for lithium-ion battery shipments. Friday, August 4, 2023 --Cathay Cargo and the Cathay Cargo Terminal have received the IATA Center of Excellence for Independent ...



## IATA

Regulations for shipping lithium batteries by air are in place to protect everyone who would come in contact with a lithium battery shipment while it is being transported as air cargo; with training being required for everyone in ...

## [Lithium Batteries Guidance](#)

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



## Transport of Lithium Batteries as Cargo via Air

o The transport of lithium batteries via air has become a significant part of the logistic chain. There were 4.3 billion lithium ion batteries produced in 2013. o After three aircraft accidents caused by cargo compartment fires, significant quantities of lithium batteries



### Transport of lithium batteries as cargo

Lithium Metal batteries as cargo Lithium metal batteries should be fully regulated under the ICAO Technical Instructions for the Safe Transport of Dangerous Goods, and current regulatory exceptions should be eliminated. Full regulation of lithium metal batteries



### **Shipping batteries: Process, Regulations and Best ...**

Material Safety Data Sheet (MSDS): Contains comprehensive product information, hazards, and handling guidelines on how to ship batteries. Required for all battery types. Transport Document: For lithium battery ...



### AIR FRANCE KLM MARTINAIR Cargo

o mixed with dangerous goods other than lithium ion, lithium metal batteries and/or lithium ion, lithium metal batteries contained in or packed with equipment Additionally, UN3090 lithium metal batteries (packing instruction 968) and UN3480 lithium ion batteries (packing instruction 965), packed in accordance with section IA and IB are subject to a maximum weight restriction:



### **Guidance Document - Battery Powered Cargo Tracking Devices ...**

lithium cells or batteries. Cargo Tracking Devices/Data Loggers Containing Excepted Lithium cells or Batteries Packages containing lithium batteries installed in equipment such as a data logger must bear the lithium battery mark as shown in Figure 7.1.C of the





## Shipping Lithium Ion Batteries Internationally: A Primer

Identification of cargo type (e.g., lithium ion batteries) Class 9 lithium battery label UN DG identification number Shipper or recipient name and address Markings such as the one below for lithium batteries must be durably applied or printed, be legible, and be able



### [Lithium-ion batteries in air cargo](#)

A set of videos recently published by the UK CAA has further illustrated the potential danger of Li-ion batteries on board aircraft. A link to one relevant to air cargo handling is here. The video series follows the increasing use of high energy Li-ion technology and has some alarming footage from recent fires caused by Li-ion batteries, both on the ...



## Cathay Cargo receives IATA's CEIV Lithium Batteries certification

Cathay Cargo and the Cathay Cargo Terminal have received the IATA Center of Excellence for Independent Validators Lithium Batteries (CEIV Li-batt) certification. Cathay said in its announcement that with this new accreditation, both Cathay Cargo and the Cathay Cargo Terminal now hold the full set of CEIV certifications, joining CEIV Pharma, CEIV Fresh and ...



## IATA

IATA issued a notice on the classification of small lithium battery-powered vehicles when shipped as cargo and the provisions that apply, specifically the wording of Special Provision A214. Devices such as balance wheels, air wheels, solo wheels, mini balance boards and hoverboards, are classified as UN 3171, battery-



powered vehicles.



### **AirBridgeCargo Airlines**

lithium batteries are the types of rechargeable batteries that use lithium ions as a key component of its electrochemistry. They are characterized by the transfer of lithium ions between the electrodes during the charge and discharge reactions and are applicable for portable and home electronic tools - UN3480 RBI, EBI and UN3481 RLI, ELI.



### **For lithium batteries**

Safe Lithium Battery Transportation on Air. AirBridgeCargo is one of the few well-known airlines in the world, that still transports every type of batteries, permitted for carriage by air that is allowed by IATA: from mobile phones to electric cars batteries. This became

## **Contact Us**

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For catalog requests, pricing, or partnerships, please visit:  
<https://vdbconstruction.co.za>