

# How to ship damaged lithium ion batteries





## Overview

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Lithium cells and batteries that have been damaged or identified by the manufacturer as being defective for safety reasons may NOT be transported by air. These lithium batteries must be shipped by ground (highway or rail) or by vessel, and must meet certain conditions specified at 49 CFR 173.185 (f): Can I ship a lithium battery cross-border?

There are regulations attached to the cross-border shipping of batteries to ensure they travel safely. These regulations vary depending on the type of batteries. Lithium batteries, for example, are classified as Dangerous Goods, so not all types of lithium batteries are accepted by DHL Express which you can check here.

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.

How do you dispose of a damaged lithium ion battery?

Do not place damaged batteries in the regular trash or recycling containers. If further measures are needed, the damaged battery may be placed in a specially designed storage case. Are Lithium-ion Batteries Hazardous Waste?

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What happens if a lithium ion battery is damaged?

Li-ion batteries contain an anode, cathode and electrolyte. These components are arranged within a casing that allows the battery to function normally. But, if the battery is stored incorrectly or handled improperly, it can become hazardous. This article will teach you how to handle, store, ship and dispose of damaged lithium-ion batteries.



How do I ship a recalled battery?

Place the shipping label on the top of the largest side. Ensure that all required outer markings, labelings and documentation appear. FedEx Express will not accept or ship recalled or defective batteries, either as a stand-alone unit or contained with equipment. Waste batteries or batteries being shipped for recycling or disposal.

Can I ship a faulty battery?

Shipping damaged or faulty batteries can be extremely dangerous, with the risk of fire, smoke and fumes. For this reason, any battery that is suspected or known to be defective (swelling, corroding or leaking, for example) is not permitted for shipping within the DHL Express network.



## How to ship damaged lithium ion batteries

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### How to ship lithium batteries in equipment , United Kingdom



How to ship lithium batteries in equipment These type of batteries are built into equipment like laptops, smartphones and portable medical devices. They're classified as dangerous because lithium can catch fire if overheated or damaged. That's why there are

### IATA

No, you cannot send lithium batteries, by themselves, in the airmail. You will need to contact your local postal authority to see if you be able to ship them by surface methods i.e. sea, road and rail. If you have to send the ...



### 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 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 batteries or cells are rechargeable (secondary) lithium ion or lithiumcells or



### How to Ship Lithium-Ion Batteries in 2024 , Easyship

Lithium-ion batteries can potentially catch fire if damaged during transit, which is why there are many shipping restrictions. Are lithium batteries shipped fully charged? No, lithium-ion batteries cannot exceed 30% of their full capacity when shipping.



### [Shipping lithium batteries , TNT Australia](#)

Lithium batteries need special attention when being shipped. Check the most common shipments that contain lithium batteries and how to ensure your shipment is safe and compliant. Class UN Number Proper Shipping Name Comments 9 UN3480 Lithium ion



### How to Ship Lithium Batteries: A Comprehensive Guide

2. Lithium Battery Shipping Documentation  
Shipping Declarations: Providing detailed information about the batteries being shipped, including their classification, quantity, and packaging compliance. Safety Data ...





## Shipping lithium batteries , United Kingdom

Lithium batteries are found in everything from phones and laptops to watches, cameras and toys. For shipping, all types of lithium batteries are classified as dangerous goods -- with special regulations for packing, labelling, documentation and handling.



## **How to Ship Lithium Batteries via Ocean Freight**

UN Number and Proper Shipping Name: The correct UN number (such as UN3480 for lithium-ion batteries) and the proper shipping name must be visible on the packaging to comply with international ocean freight regulations.

## How to Ship Lithium Ion Batteries

Learn how to ship lithium ion batteries on shippingschool . Lithium ion batteries are categorized in Class 9 of Hazardous Materials, so you'll need to follow certain regulations if you want to ship them domestically and internationally. Read more about sending lithium ion batteries at shippingschool !

- LiFePO<sub>4</sub>, Battery, safety**
- Wide temperature: -20~55°C**
- Modular design, easy to expand**
- The heating function is optional**
- Intelligent BMS**
- Cycle Life: > 6000**
- Warranty: 10 years**



## **How to Safely Handle Damaged & Recalled Lithium Ion Batteries**

If you have a damaged battery, purchase a DDR kit to safety store and ship these batteries. When storing a damaged battery, we recommend wearing gloves to avoid direct skin contact. Safely store this battery in a container of sand or kitty litter. Keep these



## Damaged Lithium Ion Batteries: Storing, Handling & Shipping

This article will teach you how to handle, store, ship and dispose of damaged lithium-ion batteries. It will also provide background information on the dangers associated with Li-ion batteries and ...

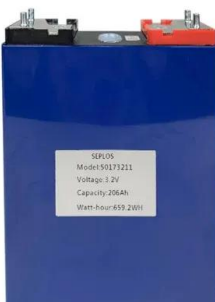


## Beginners guide to UN3480, UN3481 and IATA ...

Applicable regulations; UN-No: 3480 (UN3480) or UN3481 Lithium-Ion Batteries and Lithium-Ion batteries contained in equipment or packed with equipment Any Lithium-Ion batteries to be shipped are of the type proven ...

## [Lithium Battery Shipping Overview](#)

Shipping of lithium ion cells >60 WH and batteries >300 WH and lithium metal cells >5 grams lithium per cell and >25 grams per battery as fully regulated Class 9 hazardous materials. o This includes Class 9 batteries that are "packed with" and "contained in" equipment.



## Are Lithium-Ion Batteries Dangerous to Ship? , FreightPros

With phones and laptops blowing up, it may seem like shipping lithium-ion batteries is impossible. Let's look at how they work, and how you can safely ship your batteries. Skip to content 888-297-6968 Customer Login Menu Get a Freight Quote Freight Services



## How to Properly Ship Lithium-Ion Batteries , Hazmat ...

Yes, it's possible to ship lithium-ion batteries by air, but it's essential to follow all regulations, The package holding the battery-containing devices must have enough strength to prevent damage to the device. If ...



### Shipping damaged lithium batteries? Say hello to Special Permit

Of all the headaches associated with shipping lithium batteries, the most acute of them might be return shipments of damaged or defective cells/batteries, or the equipment containing them. If that headache sounds familiar, we now have your ibuprofen. Based on a special permit from the U.S. Department of Transportation that grants relief from 49 CFR

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

The outer box must have the UN number, proper shipping name (e.g. UN 3480, Lithium-ion batteries), and hazard labels. Use laminated labels to prevent damage from condensation. Avoid placing battery shipping labels on ...



### [How to safely pack and ship batteries](#)

UN3090 Lithium Metal Batteries 9 UN3091 Lithium Metal Batteries Contained in Equipment or Lithium Metal Batteries Packed with Equipment 9 UN3292 Batteries, Containing Sodium 4.3 UN3480 Lithium Ion Batteries 9 UN3481 Lithium Ion Batteries Contained in



## IATA

Lithium batteries, especially lithium-ion batteries, have become a preferred energy source for many items due to their high power density and light weight as well as their rechargeable capability. Lithium batteries can be found in most consumer electronic items such



### [BU-704: How to Transport Batteries](#)

Carry-on Maximum 100Wh, passenger can take 2 spares up to 160Wh each, not exceeding 320Wh. No check-in allowed. Section II Shipment of small Li-ion in low numbers. These can include up to 8 cells not exceeding 20Wh each and up to 2 packs not

### [Damaged, Defective and Recalled Batteries](#)

ALL damaged, defective or recalled (DDR) lithium ion (rechargeable) and lithium metal (primary/non-rechargeable) batteries require special handling. If a DDR lithium-based battery is shipped without proper protection, they are more likely to cause safety incidents, such as sparks that can turn into a fire at collection sites or at shipping facilities.



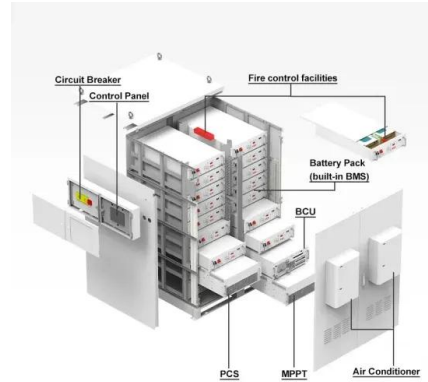
### **How to Ship Wet, Dry, and Lithium Batteries , FedEx**

Learn how to ship your batteries with our guide. Discover how to identify your wet or dry battery and how to secure them for shipping. Our guidelines for shipping lithium batteries will help make sure you meet all standards for safely shipping ...



### Transporting Lithium Batteries , PHMSA

Lithium cells and batteries offered for transportation must have passed the design tests found in the United Nations (UN) Manual of Tests and Criteria, Section 38.3. Effective January 21, 2022, lithium cell and battery manufacturers must make test summary



### How To Ship Batteries , UPS

A UPS guide to help you safely pack and ship many kinds of batteries including lithium metal, damaged or defective batteries and alkaline or certain nonspillable lead-acid batteries.



### **Shipping Lithium Batteries Overseas , DHL Singapore**

This article discusses the potential risks involved when shipping lithium batteries internationally, how to package lithium batteries, and what measures should be put in place to ...



### Shipping lithium batteries

Definitions of lithium batteries The term "lithium battery" or "lithium cell" refers to a family of batteries with different chemistries, comprising many types of cathodes and electrolytes. They are separated into: (I) Lithium ion batteries (Included lithium polymer batteries)





## Lithium Batteries Guidance

Read the International Air Transport Association guidance for lithium battery shipments. A UPS guide to help you safely pack and ship many kinds of batteries including lithium metal, ...



## How to safely pack and ship batteries

Equipment or Lithium Ion Batteries Packed with Equipment 9 Some of the battery types shown above may be shipped under and ship batteries, it does not replace the applicable regulations. For more information, consult the U.S. DOT's Hazardous Materials



## **Specialist Shipping for Lithium Ion Batteries**

There are two main types of lithium batteries: lithium-ion (Li-ion) batteries, which are rechargeable; and lithium metal batteries, which are non-rechargeable. There are different requirements for different batteries, and you are responsible for providing an MDS for the batteries in order for the shipment to be assessed.



## What to do with damaged lithium batteries

Lithium batteries: The risk of thermal runaway  
One significant danger associated with lithium batteries is the potential for thermal runaway--a self-oxidising chain reaction that occurs within the battery, generating intense heat and gas. This can lead to extremely high





## **Packing and Shipping Batteries: A Guide , How to Ship**

When shipping lithium-ion batteries, they must be packed in a way that prevents short-circuiting. Proper packaging is also essential to prevent damage or accidents during shipping. When selecting a courier for shipping batteries, it is important to check their



## **Contact Us**

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