



# Shipping large lithium batteries

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](#).

Are You shipping lithium batteries?

While lithium batteries are often found in items we use every day, such as mobile phones and calculators, they can cause fire hazards on the ground and in-flight if improperly handled. As all lithium batteries are considered dangerous goods, regulations are in place to ensure their safe transport.

How do I ship a lithium ion battery?

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 removable packaging.

What documents do you need to ship a lithium battery?

**Transport Document:** For lithium battery shipments, this specifies the UN number, shipping name, hazard class, packing group, and total quantity. **Pilot Notification:** For shipping lithium batteries by air, pilots must receive written information on the presence and location of lithium batteries.

Can You ship a battery across a country?

Many electronic products and devices contain batteries - in particular, lithium batteries, which are commonly found in laptops, smartphones, tablets, medical devices and power tools. 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.

Can I ship a lithium battery with DHL?

For more advice on safely shipping lithium batteries with DHL, [click here](#). A dry cell battery is commonly used for portable electrical devices - this classification includes alkali-manganese, zinc-carbon, nickel cadmium and other solids..

The answer lies with an ever-changing landscape of IATA shipping requirements and standards. Expensive week long seminars, overwhelming webinars, and exhaustive 100+ page PDF documents have been constructed to educate logistics personnel of the ins and outs of lithium ion battery safety, qualification and shipping -- which few individuals have the time or ...

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



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comply. Meanwhile, regulatory agencies continue to update regulation in an effort to keep lithium battery transport by air as safe as possible. The most ...

Medium and large lithium-ion batteries see use in notebook computers, professional AV equipment and electric cars. They have 8 grams or more of equivalent lithium content, or ELC. ... When shipping lithium batteries, the method you select for delivery makes a difference in packaging and handling. For instance, the changes in pressure in an ...

From lithium, dry cell alkaline,, and nickel-metal hydride to wet cell batteries, each type has unique characteristics and potential hazards, necessitating specific packaging, labeling, and handling procedures to ensure safe transportation.

2022 LITHIUM BATTERY SHIPPING GUIDE . JANUARY 1, 2022 . The following guide provides a summary of marking, labeling and paperwork requirements for shipping lithium batteries via domestic US ground (49 CFR 171-180 in effect 1-Jan-2022), international air (2022 IATA DGR, 63rd Edition) and international

If you are shipping lithium batteries by ocean, you will need to make sure that you specify the correct UN numbers and Proper Shipping Names (PSNs), as established in the UN Recommendations on the Transport of Dangerous Goods, commonly known as the Orange Book. These identifiers are critical for accurate documentation, labeling, and handling ...

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When preparing shipments containing lithium batteries, it is important to ensure the batteries are not in any way defective, damaged, or have the potential to produce a dangerous evolution of heat, fire or short circuit. When packaging lithium batteries for shipment, strong rigid outer packaging must be used.

4 o Lithium metal (LiM) o are generally non-rechargeable (primary, one-time use). o have a longer life than standard alkaline batteries o are commonly used in hearing aids, wristwatches, smoke detectors, cameras, key fobs, children"s toys, etc. LITHIUM BATTERY TYPES There are many different chemistries of lithium cells and batteries, but for transportation purposes, all lithium ...

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On top of that, you could also end up paying regulatory fines or losing shipping privileges if battery shipping regulations are violated. Due to such risks, lithium batteries are classified as Class 9 dangerous goods, while other types of batteries can fall into other classes of dangerous goods. This means they are subject to regulations on packaging, labelling, quantity ...

What to Know About Shipping Lithium Batteries by Air. 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. Knowing ...

Although battery types like lithium metal batteries, lithium-ion batteries and others are all technically different, for the purposes of shipping they are largely seen as the same and all rules, recommendations, and restrictions generally apply to all types. Examples of lithium battery shipping labels.

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 !

You may only mail lithium batteries: Meeting the conditions outlined in Schedule 2, Special Provision 34 of the Transportation of Dangerous Goods Regulations. Subject to the restrictions set out in the table below ; Please note: You aren't allowed to ship lithium batteries to any destination outside of Canada and the U.S.

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Lithium batteries, which are commonly used in devices such as mobile phones, laptops, PDAs, watches, cameras, and children's toys, are classified as "Dangerous Goods" under IATA DG Regulations, since charged battery shipments may overheat and ignite under certain conditions.

United Nations numbers for lithium battery shipments. In addition to proper packaging, lithium battery shipments are subject to UN regulations, which mandate specific markings. UN numbers are four-digit identifiers that indicate whether the items are hazardous substances or dangerous goods.

For companies that only ship lithium batteries, or products packaged with or containing lithium batteries it is more appropriate to take the Shipping Lithium Batteries by Air course to get a comprehensive look at how to ship lithium batteries and how to properly meet the requirements set out in the IATA Dangerous Goods Regulations .

This thermal runaway can propagate to other batteries or combustible materials nearby, potentially resulting in

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large scale thermal events with severe consequences. ... Refer to 49 CFR 173.185 and the resources below for detailed requirements related to shipments of ...

Shipping lithium batteries off for disposal or to be recycled is a bit easier than it normally would be for regular shipments of lithium batteries. There are two exemptions from subpart 175.185 of the Title 40 of the CFR that lithium battery shipments for disposal or recycling are afforded. These exemptions are: UN 38.3 Cell and battery testing

As all lithium batteries are considered dangerous goods, regulations are in place to ensure their safe transport. It is essential to understand how to send battery properly. This portal provides ...

However, large lithium-ion batteries, like the ones in electric vehicles, pose a greater risk because they can ignite more quickly. Unlike when shipping smaller lithium-ion batteries, new electric vehicles are moved overseas in huge Ro-Ro vessels, with their batteries secured and not live during the shipping process.

When shipping large lithium ion batteries, they must be packaged in accordance with Section II of DOT 381, which provides detailed information about proper packaging for shipping hazardous materials that includes adequate cushioning and insulation to prevent damage from shock and vibration during shipping. All shipments containing cells or ...

These courses focus on how to ship medium and large lithium batteries, as well as using the exemption for small batteries by many modes of transport: o Air (IATA & ICAO) o Ground (49 CFR & TDG) o Sea (IMDG) Choose one of the following training formats:

Shipping lithium ion batteries internationally is more complex and requires freight forwarders to have special expertise. Capacity & Rate Trends; ... A large volume of EV battery shipments travel through Asia where monsoon rains can penetrate poorly protected outer packaging and damage the goods. Heavy duty shrink wrap and plastic covering is a ...

The Future of Lithium Battery Shipping. As lithium battery use continues to grow, shipping regulations will likely evolve as well. The IATA updates its lithium battery shipping guidelines annually, with the latest version effective from January 1st, 2021.<sup>9</sup>. Potential future developments include: Stricter packaging and labeling requirements

Ocean freight is a cost-effective and dependable method for shipping lithium batteries, particularly when dealing with large quantities. This method involves utilizing container transport for the shipment. While sea freight offers several advantages, it's important to consider that the shipping time is typically longer compared to air freight ...

Batteries up to 2g UN 3090, Lithium Metal Batteries --P.I. 968 Section IB LITHIUMMETALBY AIR BATTERIES/CELLS ONLY o[FX-04 e] FedEx Express will not accept shipments that meet the condition of

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Special Provision A183, unless specifically pre-approved. o[FX-05 b] All lithium batteries (Section I/IA/IB and Section II) in all packing

2020 Lithium Battery Guidance Document Transport of Lithium Metal and Lithium Ion Batteries Revised for the 2020 Regulations ... by the proper shipping name shown in Table 4.2, e.g. for "Fire extinguishers", the net quantity is the weight of the fire extinguisher. For articles packed with equipment or contained in equipment, the net

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

The second step to reducing risks in shipping lithium batteries focuses on how to pack and ship lithium metal batteries. Shippers should ensure all lithium batteries are appropriately cushioned and protected from potential contact points. This also includes ensuring batteries are shipped in puncture-resistant containers.

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