

What are the shipping requirements for lithium ion batteries?

In addition, lithium-ion cells and batteries shipped by themselves must be shipped at a state of charge not exceeding 30% of their rated capacity. Lithium batteries are dangerous goods, and all of the regulatory requirements must be complied with, as set out in the Lithium Battery Shipping Regulations.

Can I ship a lithium battery by Air Service?

Shipping lithium batteries by air service Regulations differ depending upon what type of lithium battery you are shipping (lithium ion or lithium metal) and whether you are shipping batteries packed with equipment or batteries contained in equipment. Reminder: UPS does not accept Section II shipment

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](#).

What are the requirements for a lithium battery?

The lithium batteries must be of a type that have successfully passed the UN38.3 tests and contain the necessary systems to prevent overcharge and over discharge between the batteries.

What are the requirements for packaging a lithium battery?

The outer packaging, when used, must be constructed of suitable material of adequate strength and design in relation to the capacity and intended use of the packaging, unless the lithium cells or batteries are afforded equivalent protection by the equipment in which they are contained.

Can a lithium battery be shipped with other hazardous materials?

Lithium metal cells and batteries must not be packed in the same outer packaging with other hazardous materials. A shipment that exceeds the quantity limitations in the table, the overpack limit, or consignment limit, must be shipped as a fully regulated lithium metal battery (See Guide 05 for provisions).

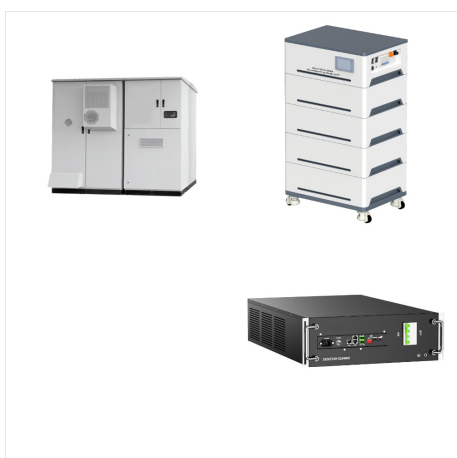
RULES FOR SHIPPING LITHIUM ION BATTERIES



Effectively, when shipping any lithium batteries you should ensure you adhere to the Dangerous goods regulations. Whilst you can see further specific later in this guide, you should use good quality, sturdy packaging, ensure the devices / batteries cannot move or become "activated" during transit, ensure the appropriate labelling in place (depending on how many ???



manufacturers. The lithium battery types covered by this Guide include lithium-ion, lithium-alloy, lithium metal, and lithium polymer types. For requirements applicable to conventional battery types (such as lead - acid, alkaline, etc.), please refer to the requirements in Part 4 of the ABS

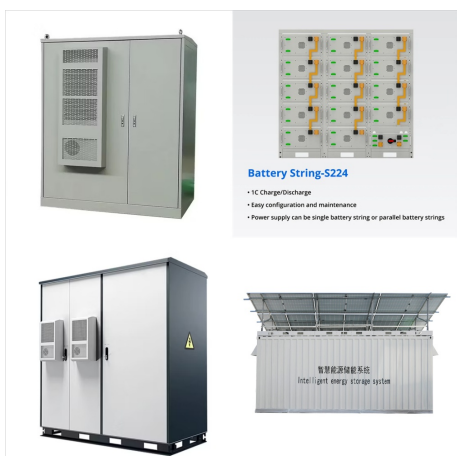


Lithium-Ion battery shipping regulations. When shipping L i-ion batteries via air, sea, rail, or road, compliance with the United Nations Standard 38.3 is a critical requirement. Shipping by air. Certain rules and restrictions are in place to ensure safety for air shipments. Standalone Li-ion batteries cannot be transported as cargo on

RULES FOR SHIPPING LITHIUM ION BATTERIES



Lithium battery shipping information for air transport referenced in this guide (including pictured labels) are based on the 2022 International Air Transport Association (IATA) Dangerous Goods Regulations (DGR) 63. rd. Edition section 7.3.18.2, 7.4.2 and 7.1.C. Lithium battery shipping information for ocean transport referenced in this guide



Lithium batteries (UN3090, UN3091, UN3480, UN3481) Regulatory Changes Please note that regulations applicable to lithium batteries are dynamic. UPS will update this guidance document as quickly as possible. Lithium battery shippers must stay abreast of changes. UN38.3 test summary documents must be made available upon request



4 ??? Lithium metal (LiM) ??? are generally non-rechargeable (primary, one-time use). ??? have a longer life than standard alkaline batteries ??? 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 ???

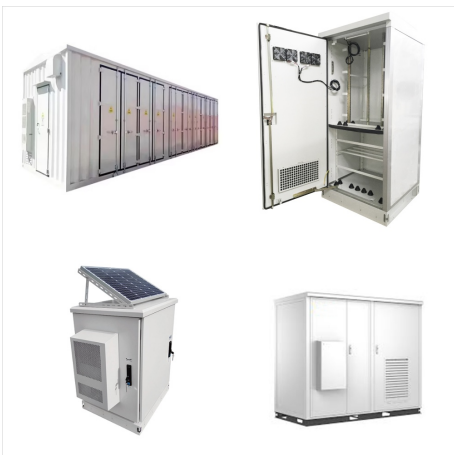
RULES FOR SHIPPING LITHIUM ION BATTERIES



Lithium-Ion battery shipping regulations. When shipping L i-ion batteries via air, sea, rail, or road, compliance with the United Nations Standard 38.3 is a critical requirement. Shipping by air. Certain rules and restrictions ???



Hi, I want to ship a lithium-ion battery to NZ to use in my electric bike. The bike I will take with me in the aircraft (without the battery). The rules for shipping of UN3481 (Lithium Ion Batteries contained in or packed with equipment) vary greatly depending on the type and power of the battery or batteries, the number and weight of the



Shipping Dry Ice Rules & Restrictions. Open or Close content below Firearms. Shipping Lithium Batteries. Open or Close content below Live Animals. Except in limited circumstances, pets and warm-blooded animals may not go in the mail. Shipments of live animals, including poultry, reptiles, and bees, have very specific packaging requirements.

RULES FOR SHIPPING LITHIUM ION BATTERIES



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 ???



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 !



USPS has strict rules for shipping batteries, and one of the most critical factors is Watt hours (Wh). If you do not know how to calculate Watt-hours, All packages containing lithium metal or lithium-ion batteries that can be mailed must be of sufficient size, sealed, and rigid. This ensures that the lithium battery mark can be affixed to

RULES FOR SHIPPING LITHIUM ION BATTERIES



A Final Rule to amend the 49 CFR Hazardous Materials Regulations (HMR) for lithium battery shipments takes effect on January 20, 2023. Published to the Federal Register just before the winter holidays, the new Rule replaces an Interim Final Rule (IFR) that's been in effect for nearly four years.. Most of the amendments in the Final Rule have been effective since ???

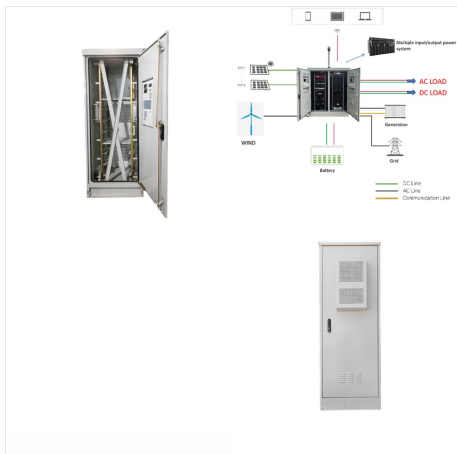


WASHINGTON ??? The U.S. Department of Transportation (DOT) today issued new standards to strengthen safety conditions for the shipment of lithium cells and batteries. These changes, some of which focus specifically on shipments by air, will better ensure that lithium cells and batteries are able to withstand normal transportation conditions and are packaged to ???



Here's what to know in regard to lithium battery shipping by air for all shippers, freight forwarders and ground operation personnel. [Search] both easy-to-read references of current rules based on the International Civil Aviation Organization's usage of lithium-ion batteries is expected to increase elevenfold between 2020 and 2030

RULES FOR SHIPPING LITHIUM ION BATTERIES



Lithium batteries are used in many electronic devices such as cameras, cell phones, laptop computers, medical equipment and power tools. When you ship lithium batteries, either alone, contained in or packaged with devices and equipment, you must meet shipping requirements for dangerous goods. Different rules apply depending on whether you are shipping by ground or ???



Yes. In Canada, the shipping and importing of lithium batteries is subject to the Transportation of Dangerous Goods Act, 1992 (TDG Act) and its regulations. They are considered dangerous goods much like gasoline, propane and sulfuric acid. Lithium polymer batteries are considered a type of lithium ion battery. Lithium ion batteries are used

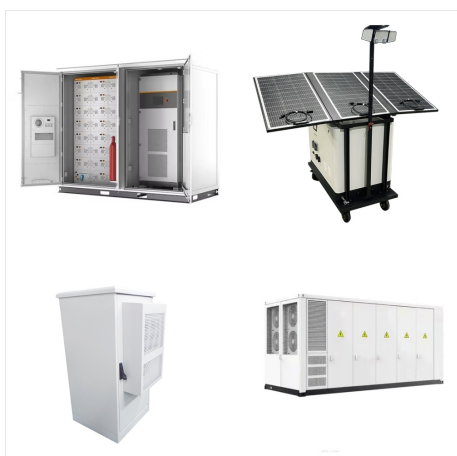


If battery is not installed, must ship as "UN 3091, Lithium Metal Batteries Packed with Equipment" or "UN 3481, Lithium Ion Batteries Packed with Equipment", as applicable. There is no battery size designation (small, medium or fully regulated) for these entries.

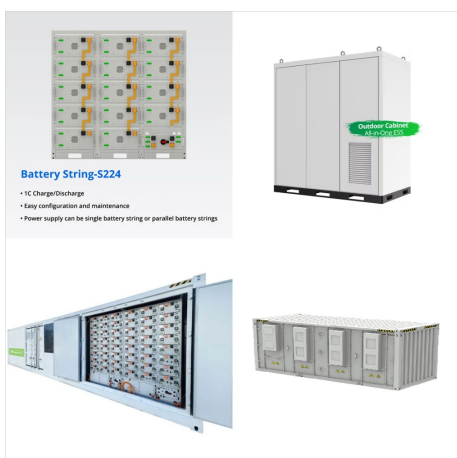
RULES FOR SHIPPING LITHIUM ION BATTERIES



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 lithium
polymer cells or batteries. These are very commonly
found in portable consumer



Domestic and international shipping rules for
packaging set out the exact requirements for
preventing overheating and damaging the batteries.
However, international air travel has an additional
requirement for packaging separately shipped
batteries. Shipping lithium-ion batteries
internationally by air has similar guidelines under
the



LITHIUM ION BATTERY SHIPMENTS Figure 1 Is
my Lithium Ion Battery shipment* fully regulated so
that it requires UPS Dangerous Goods service? NO
NO NO NO NO NO YES YES YES YES YES YES
Are any lithium ion batteries in your shipment >
100Wh or lithium-ion cells > 20Wh? A UPS
Dangerous Goods contract will be required.** UN
spec packaging, class 9

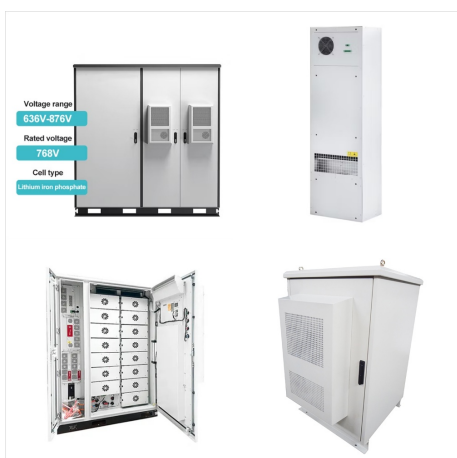
RULES FOR SHIPPING LITHIUM ION BATTERIES



Note. Effective 1 July 2015, all existing customers and new customers who wish to ship lithium metal batteries without equipment (UN3090) via UPS (R) Air services must obtain pre-approval from UPS Airlines. This requirement is to ensure that proper training has taken place and that all applicable safety regulations are properly followed for such shipments.



category of lithium-ion batteries are lithium polymer batteries. Lithium-ion batteries are generally used to power devices such as mobile telephones, laptop computers, tablets, power tools and e-bikes. Figure 2 - Example of Lithium Ion Cells and Batteries Note: Lithium ion batteries packed by themselves (Packing Instruction 965) (not contained



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.

RULES FOR SHIPPING LITHIUM ION BATTERIES



Batteries up to 2g UN 3090, Lithium Metal Batteries
P.I. 968 Section IB LITHIUMMETALBY AIR
BATTERIES/CELLS ONLY [FX-04 e] FedEx
Express will not accept shipments that meet the
condition of Special Provision A183, unless
specifically pre-approved. [FX-05 b] All lithium
batteries (Section I/IA/IB and Section II) in all
packing



That's the only way you'll be able to send
lithium-ion batteries packed outside of any
equipment with any of the UPS air services. Pay
Attention to the Rules of Your Shipping Software for
Sending Lithium Ion Batteries with UPS. Some
shipping software platforms have different rules
when it comes to allowing lithium-ion battery
shipments with



Spare (uninstalled) lithium ion and lithium metal
batteries, including power banks and cell phone
battery charging cases, must be carried in carry-on
baggage only. With airline approval, passengers
may also carry up to two spare larger lithium ion
batteries (101-160 Wh) or lithium metal batteries
(2-8 grams).

RULES FOR SHIPPING LITHIUM ION BATTERIES



This compliance resource was prepared to assist shippers to safely package lithium cells and batteries for transport by all modes according to the latest (December 27, 2022; HM-260B) regulatory requirements. This publication directs readers to scenario-based shipping guides that outline the requirements to ship packages of lithium cells and