

# Airline lithium battery policy





## 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. Are lithium batteries allowed on planes?

Lithium batteries are allowed on planes, but the rules vary by airline. We look at each major airline and summarize their lithium battery policy. These policies change, so if you're planning on carrying on a lot of gear, please double check with the airline.

What batteries are allowed in carry-on luggage?

Batteries allowed in carry-on baggage include: Dry cell rechargeable batteries such as Nickel Metal Hydride (NiMH) and Nickel Cadmium (NiCad). For rechargeable lithium ion batteries; see next paragraph. Lithium ion batteries (a.k.a.: rechargeable lithium, lithium polymer, LIPO, secondary lithium).

Can a passenger carry a battery on a flight?

Not allowed on board of a flight as baggage. □ The operator approval is requested when passenger carry more than 15 PED's or more than 20 spare batteries. For passengers who carried electronic devices installed with lithium batteries in checked baggage, please make sure that:.

Are batteries allowed in checked baggage?

Spare lithium metal and lithium ion/polymer batteries are prohibited in checked baggage—this includes external battery packs. Electronic cigarettes and vaporizers are also prohibited in checked baggage. "Checked baggage" includes bags checked at the gate or planeside. Q3. How do I determine the watt hours (Wh) rating of a battery?

A3.

How many lithium ion batteries can be carried on a wheelchair?



With operator approval, no more than 2 lithium ion batteries with a watt-hour rating exceeding 100 Wh but not exceeding 160 Wh are permitted in carry-on baggage only for each passenger. Passengers carrying lithium battery powered wheelchairs shall comply with relevant regulations.

Can a lithium battery be transported by air?

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 by air (e.g. those being returned to the manufacturer for safety reasons).



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### [Southwest Airlines Vape Policy](#)

Carry-On Only: E-cigarettes and vapes are not allowed in checked luggage due to safety concerns related to lithium batteries. You can, however, pack your vape in your carry-on luggage. TSA Regulations: The Transportation Security ...

### [Lithium Battery Policy By Airline](#)

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### [Electronic Device , United Airlines](#)

Store spare batteries in carry-on bags. Lithium-ion batteries can't exceed 100 watt hours. Lithium metal batteries can't exceed 2g. If you're unsure about the battery, don't pack it. Learn more about lithium batteries. The DOT and the FAA also has more

### **Can I bring the lithium battery and the lithium ion battery in**

In addition, electronic devices with containing batteries and lithium ion battery can be checked by checked baggage as long as they satisfy certain conditions. Please check " Restricted items " and " (International Flights) About the



restricted articles in checked and carry-on baggage " for details.



### Items With Conditions Attached to Their Carry-on or Check-in

Only the following lithium batteries may be carried on board: Lithium-metal batteries with a lithium content of 2 g or less, and lithium-ion batteries with a watt-hour rating of 100 Wh or less. Take the necessary measures to prevent accidental activation of the heat producing component.

### Flair Airlines

For lithium metal batteries the lithium metal content must not exceed 2 g For lithium-ion batteries the Watt-hour rating must not exceed 100 Wh. Articles which have the primary purpose as a power source, e.g. power banks are considered as spare batteries.



### [Restricted and prohibited , LATAM Airlines](#)

Lithium ion batteries: The Watt-hour rating must not exceed 100 Wh. Non-spillable batteries: must be 12 V or less and 100 Wh or less. Note 1: Maximum 2 spare batteries in cabin baggage (limit applicable to devices with lithium metal or lithium ion batteries)



### Battery or Fuel-Powered Items

Lithium cells or batteries power many consumer electronic devices and medical devices, like watches, laptop batteries, calculators, cell phones, hearing aids and much more. You can bring lithium-battery powered devices as carry-on items or in checked baggage.



114KWh ESS



### **Transport of Lithium Metal and Lithium Ion Batteries**

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 DGR. Specifically, the document ...

### Airplane Policies on Carrying Battery Packs

Lithium-metal batteries are limited to 2 grams of lithium per battery, while lithium-ion batteries are limited to a rating of 100-watt hours (Wh) per battery. Passengers may also carry up to two spare larger lithium-ion batteries (101-160 Wh) or lithium-metal batteries (2-8 grams) with airline approval.



### Spare batteries and powerbanks

All other battery restrictions still apply e.g. no more than two spare lithium batteries exceeding 100Wh and up to 160Wh, are permitted and forms part of the total carried. A combination of batteries may be carried e.g. 10 x 98Wh lithium ion + 2 x 138Wh lithium ion + 2 x 12V and 98Wh non-spillable + 6 x alkaline.





## Restricted and Prohibited Items , Baggage Information , Before ...

Only the following lithium batteries may be carried on board: Lithium-metal batteries with a lithium content of 2 g or less, and lithium-ion batteries with a watt-hour rating of 100 Wh or less. Take the necessary measures to prevent accidental activation of the heat producing component.



### [Lithium Battery Guidance Document](#)

1. The employer must identify the different configurations of lithium batteries that they ship, i.e. lithium batteries and/or lithium batteries packed with equipment and/or lithium batteries contained in equipment; lithium metal batteries and/or lithium ion batteries.

## Lithium batteries with more than 100 watt hours

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). This size covers the larger after-market extended-life laptop computer batteries and some larger batteries used in professional audio/visual equipment.



## Batteries

Due to the possibility of a fire, all batteries for electronic devices should be packed in the original retail package and wrapped in insulating tape to prevent loose batteries from coming into contact with metal objects. Please note: Lithium batteries should be packed in carry-on bags, not checked bags, to protect the battery from getting crushed or punctured during the flight.



### 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 this supply chain, to protect the



### Portable electronic devices (with battery and power bank)

Electronic devices with an Lithium metallic/alloy batteries with less than 2g of Lithium or Lithium ion batteries with capacity of no more than 100Wh. Each passenger can carry up to 15 electronic medical devices of this type (including carry-on and checked baggage).

### Flying Southwest Airlines with XR battery in the US

I would reference TSA's lithium battery policy of "Lithium batteries with more than 100 watt hours may be allowed in carry-on bags with airline approval. One spare battery, not exceeding 300 watt hours, or two spare batteries, not exceeding 160 watt hours each, are permitted in carry-on bags." and proceed from there.

- LIQUID/AIR COOLING
- INTELLIGENT INTEGRATION
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES



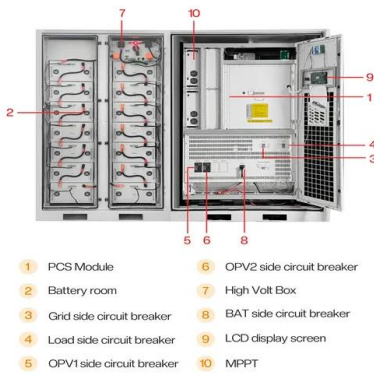
### Electronic devices and batteries

Item restriction (including lithium batteries \*): 20 items per passenger \* The item restriction includes all types of battery, i.e. non-spillable wet batteries, dry batteries, gel batteries and ...



## JAL , International Flights Restricted items (Baggage)

Electronic devices with lithium-ion batteries exceeding 160Wh (transporting the batteries alone is also prohibited) Gas Canisters, Insecticides, Pesticides, Fireworks, Firecrackers Self-heating meals (Box meal with self heating devices) \* Prohibited in both carry-on



### Batteries Carried by Airline Passengers

Lithium metal batteries (a.k.a.: non-rechargeable lithium, primary lithium). These batteries are often used with cameras and other small personal electronics. Consumer-sized batteries (up to 2 grams of lithium per battery) may be carried. This includes all the

## Baggage Restrictions and Prohibited Items , Turkish Airlines

Spare lithium metal/lithium ion battery or batteries: These batteries, for portable electronic devices, must be carried as hand/cabin baggage. The amount of lithium in lithium metal batteries must be equal to or less than 2 grams and the power of lithium ion batteries must be equal to or less than 100 Watt/hour.



### Restricted and Prohibited Items

Small lithium battery-powered vehicles are not accepted in either checked baggage or carry-on baggage due to safety concerns associated to the lithium batteries that power them. Prohibited vehicles include: hoverboards, AirBoards, electric skateboards, airwheels, mini-Segways, balance wheels, battery-assisted bikes and electric scooters.



### Restricted items - Travel information

For a lithium metal battery, lithium content cannot be more than 2 grams per battery For lithium-ion batteries, a maximum of 2, not exceeding 160 Wh each, are allowed in carry-on bag with airline approval Traveling with lithium batteries Opens another site in a



### What items have special restrictions?

Lithium-Ion Batteries for Portable Electronic Devices Please Note: Lithium batteries recalled by the manufacturer/vendor must not be carried on board or packed in baggage. Battery-powered devices recalled because of lithium battery safety concerns also must

### PASSENGERS TRAVELLING WITH LITHIUM BATTERIES

retail packaging or by otherwise insulating terminals, e.g. by taping over exposed terminals or placing each battery in a separate plastic bag or protective pouch and carried in carry-on baggage only. Articles containing lithium cells or batteries, the primary purpose of



- Efficient Higher Revenue**
  - Max. Efficiency 97.5%
  - Max. PV Input Voltage 600V
  - 100% Peak Output Power
  - 2 MPPT Trackers, 100% DC Input Utilization
  - Max. PV Input Current 20A, Compatible with High-Power Modules
- Intelligent Simple O&M**
  - IP66 Protection Degree: support outdoor installation
  - Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
  - DC AC Input & Output: prevent lightning damage
  - Battery Reverse Connection Protection
- Flexible Abundant Configuration**
  - Plug & Play, EPT Switching Under 20ms
  - Compatible with Lead-acid and Lithium Batteries
  - Max. 6 Units Inverter Parallel
  - ARC Function (Optional): when an arc fault is detected the inverter immediately stops operation



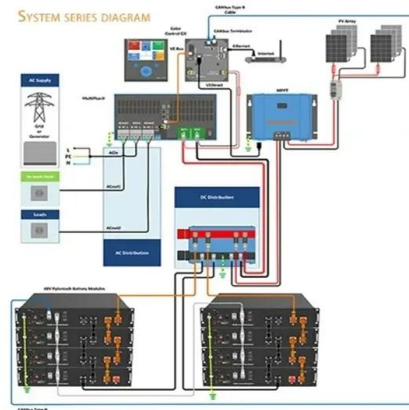
### Batteries Carried by Airline Passengers

With airline approval, devices can contain larger lithium ion batteries (101-160 watt hours per battery), but spares of this size are limited to two batteries in carry-on baggage only. This size ...



### International Rule 4: Restricted Items , Hawaiian Airlines

Battery Type Carry-On Checked Baggage In  
equipment Spare In equipment Spare Lithium-ion  
(small 1) Y Y\* Y N 1 Rated at 100 watt-hours or  
less per battery. No more than two (2) spares per  
person. As used in small consumer electronics,  
such as cell phones



### Are Lithium Batteries Allowed in Baggage on Air NZ Planes?

Lithium-ion (polymer) batteries between 100-160  
Watt hours (Wh) Lithium metal batteries between  
2-8g lithium (for medical devices only) Lithium-  
ion batteries are often used in commercial  
cameras, some drones, children's ride-on toys  
and jump starter packs.

### Flight Information

Smart Baggage with Integrated Lithium Batteries  
and/or Electronics: Lithium-ion battery-powered  
baggage, which is so-called "Smart Baggage" are  
devices with integrated lithium batteries, motors,  
power banks, GPS, GSM, Bluetooth, ...



### Battery Packs in Carry-On: TSA Rules, Airline Policies, and What ...

Lithium batteries under 100 watt hours are  
allowed in carry-on baggage. Spare lithium-ion  
and lithium metal batteries, like power banks and  
cell phone battery charging cases, must be  
carried on as well. Non-rechargeable lithium  
batteries are limited to 2 grams each.



### **Safety instructions for lithium batteries and dangerous ...**

Safety instructions for lithium batteries and dangerous goods. Spare lithium batteries must be carried in carry-on baggage only and must be individually protected so as to prevent short circuits. Power banks are considered as spare ...



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