

Power requirements for air transport of solar container batteries in Italy

<div class="df_qntext">When will lithium ion batteries be available for air transport?

From 1 January 2026, lithium-ion batteries that are packed with equipment and vehicles powered by lithium ion or sodium ion batteries must be offered for air transport with the battery at a reduced state of charge, unless otherwise approved by the relevant states (A331).

<div class="df_qntext">Which batteries are recommended for air transport?

For air transport, it is strongly recommended that equipment packed with, or containing, lithium-ion batteries have their batteries at a state of charge not exceeding 30% of their rated capacity. This also applies to vehicles powered by lithium-ion batteries.

<div class="df_qntext">Can I ship a lithium ion battery by air?

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. When you're shipping lithium-ion batteries by air, it's essential to follow specific regulations regarding their state of charge (SoC).

<div class="df_qntext">Can you carry a lithium battery on a plane?

To help with compliance, IATA has developed guidance for shippers, freight forwarders, ground handlers, airlines, and passengers. Lithium batteries can be carried by air depending on configuration and Watt-hour rating (for rechargeable) or lithium content (for non-rechargeable). In addition, spare batteries are not allowed in checked baggage.

<div class="df_qntext">What are the shipping requirements for a lithium ion battery?

Lithium ion batteries must be shipped at a state of charge (SoC) not exceeding 30% of their rated capacity. All packages must bear a Cargo Aircraft Only label, in addition to other required marks and/or labels. This applies to all lithium ion cells and batteries (UN 3480 only) prepared in accordance with Packing Instruction 968, Section IA, IB and II.

<div class="df_qntext">What are the battery shipping regulations (BSR)?

We have also put together the Battery Shipping Regulations (BSR), a manual with all the information manufacturers, retailers, wholesalers, freight forwarders and others in the supply chain need to ensure compliance when shipping batteries. Download the explanation and Guidance on the Transport of Nickel Metal Hydride Batteries (pdf) by air.

PDF Requirements for Shipping Lithium Batteries 2025 IUMI strongly supports the SoC limit of 30% for air freight and advocates similar principles for maritime transport. Regulations depend on battery size and packing method.

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In accordance with Special Provision A201, lithium metal cells or batteries that meet the quantity limits of Section II of PI 968 may be shipped on a passenger aircraft under an approval issued by the authority ...

Specific transportation methods, particularly air freight, impose restrictions on shipping lithium batteries by air. Regulations often restrict the total weight and dimensions of packages ...

Currently, it is strongly recommended that when offered for air transport, equipment that is packed with, or contains, lithium-ion batteries, and vehicles powered by lithium-ion batteries have the batteries at a ...

To manage the risks associated with the transport of dangerous goods--including lithium batteries--it is often mandatory to appoint a Dangerous Goods Safety Advisor (DGSA). This advisor, who may also ...

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 ...

Summary Lithium battery transportation involves strict compliance with packaging, marking, and documentation requirements. Ensuring the safety of batteries during transportation requires a ...

Batteries are also instrumental in helping power the rising digital economy and an ever-growing number of portable electronics. Driven by the electrification of transportation and the deployment of batteries ...

Extensive measures to transport safely what CINS describes as an "exponentially increasing volume of lithium-ion batteries" in various states of charge and when also contained in ...

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