

National Standards for Lithium Battery Transport Packaging

What are the applicable regulations for lithium-ion batteries?

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 to meet the requirements of each test set out in the UN Manual of Tests and Criteria, Part III, sub-section 38.3

Why is regulatory compliance important when transporting lithium batteries?

Ensuring regulatory compliance when transporting lithium batteries is crucial for mitigating safety risks and avoiding legal issues. Lithium batteries, while essential in powering modern devices, present significant challenges due to their chemical composition and potential hazards.

How are lithium ion batteries regulated?

These are governed by a number of UN regulations (specifically UN3480, UN 3481 and UN3090), as well as rules set out by various transport bodies (including the IATA - International Air Transport Association). Battery packaging for Lithium Ion is tightly regulated by various legislation, including UN3480, UN3481 and IATA specific rules

What are the shipping requirements for a lithium ion battery?

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

Are lithium-ion batteries safe to ship?

Shipping companies confirm that all batteries are accurately classified, securely packed, and labeled according to international standards. Proper packaging and labeling are important when shipping lithium-ion batteries, as these steps help prevent safety hazards during transport.

How do you ship lithium ion batteries?

Here are some key guidelines that shippers must follow: Use UN-Approved Packaging: Lithium-ion batteries must be packaged in containers that meet United Nations (UN) standards for transporting hazardous goods. This verifies the packaging is strong enough to protect the batteries and avoid accidents during handling or transit.

National Center of Excellence for LNG Safety ... play an important role in reducing this risk and preventing incidents--including fires aboard aircraft or other transport vehicles. Lithium batteries are regulated as a ...

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Here are some of the recommended standards by the CPSC for lithium batteries in products: a. ANSI/NEMA C18 - Safety Standards for Primary, Secondary and Lithium Batteries. b. ASTM F2951 - Standard Consumer ...

Energies 2017, 10, 793 3 of 37 incorporate these batteries. The regulations govern conduct, actions, procedures, and arrangements. The regulations are meant to ensure that shippers transport ...

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safe and reliable lithium cell/battery transport; and to help in developing national and internal policies. Keywords: regulations; transport; safety; lithium-ion batteries; lithium-metal batteries 1. Introduction When transporting goods by any mode (air, sea, tr ...

b. EN IEC 60086-4 - Primary batteries - Part 4: Safety of lithium batteries. c. EN IEC 62281 - Safety of primary and secondary lithium cells and batteries during transport. Documentation. The General Product Safety ...

This paper reviews the international and key national (U.S., Europe, China, South Korea, and Japan) air, road, rail, and sea transportation requirements for lithium batteries.

Transporting batteries, particularly lithium-ion batteries, requires a thorough understanding of safety regulations and best practices. This guide provides detailed information on how to effectively and safely transport batteries, ensuring compliance with applicable laws and minimizing risks associated with their hazards. Key Considerations for Transporting Batteries ...

Key guidelines include: State of Charge Restrictions: Batteries shipped by air must have a 30% or lower state of charge to reduce fire hazards during transit. Packaging ...

Quality requirements for e-bike lithium battery packaging. When purchasing lithium batteries for LEV, you must check whether suppliers can meet national and international safety standards ...

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