

Requirements for new lithium battery packs





Overview

What is the required packing instruction for a lithium battery pack?

The required packing instruction depends on the battery type, quantity, and mode of transportation. The IEC62133 battery pack certification is an international standard for the safety of rechargeable lithium batteries. The latest standard for this certification is IEC62133-2:2017 for lithium battery packs.

Do lithium batteries need to be UL certified?

IEC testing includes CB certification. IEC and UL testing must be done after the transportation certification is complete. For more information, see our blog post on why lithium batteries are so expensive to manufacture. In order to ship ANY lithium battery products via air freight, the UN 38.3 test must be passed by the battery packs.

How can I ensure a lithium battery is safe in 2025?

Maintain close communication with certification bodies to stay updated on the latest policy changes, ensuring that products can smoothly pass the 2025 UN 38.3 certification process. UN 38.3 certification is essential to ensuring the safety of lithium batteries during transportation.

When should lithium-ion batteries be packed with equipment?

Lithium-ion batteries packed with equipment (PI 966) Section I and Section II 1 January – 31 December 2025 It is recommended that lithium-ion cells and batteries (Section I & II) are offered for transport at a state of charge not exceeding 30% of their rated capacity. From 1 January 2026 Section I.

What are the UL standards for lithium batteries?

Below we list some UL standards that concern lithium batteries. UL 1642 covers primary and secondary lithium batteries used to power products. The standard's focus is on the prevention of risks of fire or explosion: a. When the



battery is used in a product b. When the battery which is user-replaceable is removed from the product and discarded.

Are lithium batteries regulated?

Shipping batteries is highly regulated, and anyone involved in packaging or handling battery shipments must complete annual certification training. These regulations apply to all lithium battery types and are strictly enforced by agencies such as DOT, IATA, and IMDG.



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UN 38.3 Certification for Lithium Batteries: Requirements and ...

Learn all about UN 38.3 certification for lithium batteries, including what it is, required tests, general standards, the new 2025 requirements, and how to adapt to them.

Battery guidance document

Transport of Lithium Metal, Lithium Ion and Sodium Ion Batteries . Revised for the 2025 Regulations . Introduction . This document is based on the provisions set out in the 2025-2026 ...



[Handbook On Lithium Battery Pack Design](#)

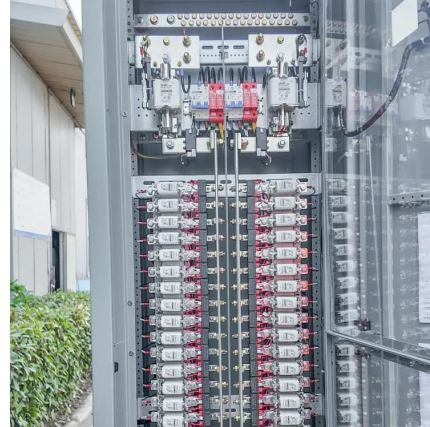
The second type of rechargeable lithium battery is called a lithium ion battery, which has a negative terminal that consists of a carbon-based material, usually graphite, or another type of ...

SAMR Announces CCC Certification of Lithium-ion ...

CCC certification for lithium-ion batteries and battery packs used in electronic and electrical



products will be conducted in the initial phase.
For ...

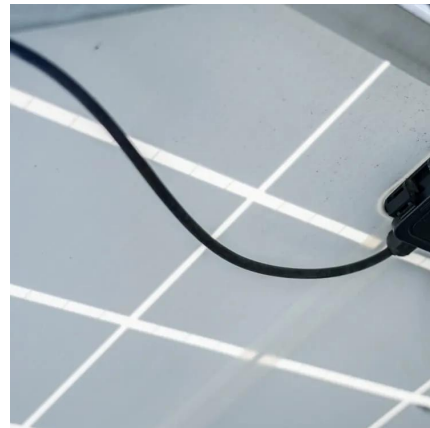


[What is the new rule for lithium batteries?](#)

New lithium battery rules, effective 2025, mandate stricter transport and storage protocols under updated UN38.3 and IATA guidelines. Key changes include 100Wh per-cell ...

A Comprehensive Guide to Lithium Ion Battery Pack Certification

To ensure battery safety, custom battery packs must meet a variety of battery safety certification requirements. Here, we'll discuss the most popular lithium battery certifications: ...



[A Guide to Safely Storing Lithium Ion Batteries](#)

Where new regulations do exist, they target the dedicated lithium-ion battery sites, which are developed for the purpose of storing batteries, not incidentally ...



[Top 11 Lithium Ion Battery Regulations](#)

Top 11 Lithium Ion Battery Regulations Lithium ion batteries have received increased scrutiny due to a number of high-profile events that have brought ...



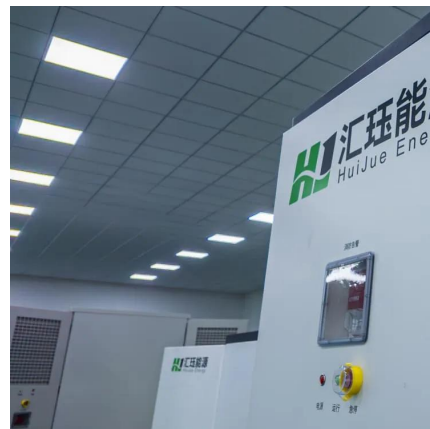
UL Certifications for Lithium Batteries: Cell vs. Pack ...

All our custom-designed batteries are engineered to meet UL certification requirements at the pack level, ensuring you receive the safest ...



[EV Lithium Battery PACK Design Process from ...](#)

EV Lithium Battery PACK Design Process: A Comprehensive Guide The design of Electric Vehicle (EV) lithium battery packs ? is a complex ...



Lithium Battery Guide

This document provides generalized guidance on the requirements for proper packaging and hazard communication of shipments of lithium cells and batteries and lithium battery-powered ...



Lithium Battery Regulations and Standards in the US: An Overview

Flight crews are trained to recognize and respond to lithium battery fires in the cabin. Passengers should notify flight crew immediately if their lithium battery or device is ...



Hidden Requirements for Custom Lithium-ion Battery Pack ...

Custom lithium-ion battery packs typically require multiple certifications, including UN38.3 for transport safety, IEC 62133-2 for global compliance, UL certification for US ...

PackSafe

Flight crews are trained to recognize and respond to lithium battery fires in the cabin. Passengers should notify flight crew immediately if their lithium battery or device is ...





Custom Lithium Battery Pack Manufacturers & Suppliers USA

Experience the best energy solutions with lithium battery suppliers in the USA, trusted battery pack manufacturers, and high-performance electric battery packs. Power up with excellence.

...

Lithium Battery Regulations and Standards in the US: An Overview

Guide to UL standards, CPSIA, Amazon requirements, lab testing, and certification for lithium battery products to the US.



[What is the new rule for lithium batteries?](#)

What is the new rule for lithium batteries? New lithium battery rules, effective 2025, mandate stricter transport and storage protocols under updated UN38.3 and IATA guidelines. ...

UL Certifications for Lithium Batteries: Cell vs. Pack Level - What

...

All our custom-designed batteries are engineered to meet UL certification requirements at the pack level, ensuring you receive the safest and most reliable power ...



What are the requirements for using a Lithium Battery Pack in an

As a leading supplier of lithium battery packs, we are dedicated to providing products that meet these requirements and exceed our customers' expectations. If you are an automaker or an ...



New EV Battery Technologies and Trends Challenge ...

As new and promising battery technologies such as solid-state, lithium-sulfur, graphene and zinc-air batteries come to market, new test systems must adapt ...



Battery Pack Certifications - Costs, Timelines and Key Standards

Our team works closely with customers to ensure their battery packs meet all required safety and performance standards on the first attempt. From UL and IEC to UN/DOT and beyond, we ...





[How to Ship a Battery Pack \(FedEx / UPS\)](#)

Regulations and requirements for shipping battery packs has recently been updated with new rules and labeling requirements with the major carriers such as FedEx, ...



How To Ship Batteries , UPS

A UPS guide to help you safely pack and ship many kinds of batteries including lithium metal, damaged or defective batteries and alkaline or certain nonspillable lead-acid batteries.

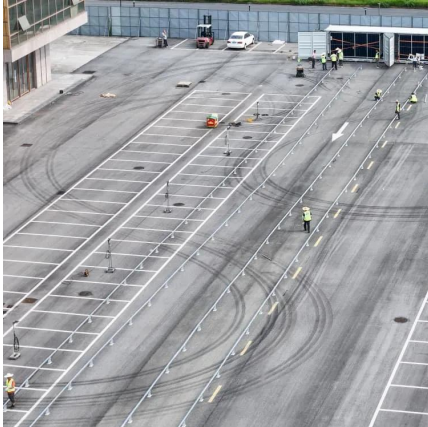
[Battery Labelling Requirements in India 2025](#)

Whether you're selling lithium-ion cells, battery packs, or electronics embedded with batteries, understanding and complying with the ...



Design approaches for Li-ion battery packs: A review

The target concerns electric and hybrid vehicles and energy storage systems in general. The paper makes an original classification of past works defining seven levels of ...



How to Ship Wet, Dry, and Lithium Batteries , FedEx

Learn how to ship your batteries with our guide. Discover how to identify your wet or dry battery and how to secure them for shipping. Our guidelines for shipping lithium batteries will help ...



A Comprehensive Guide to Lithium Ion Battery Pack ...

To ensure battery safety, custom battery packs must meet a variety of battery safety certification requirements. Here, we'll discuss the most ...



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