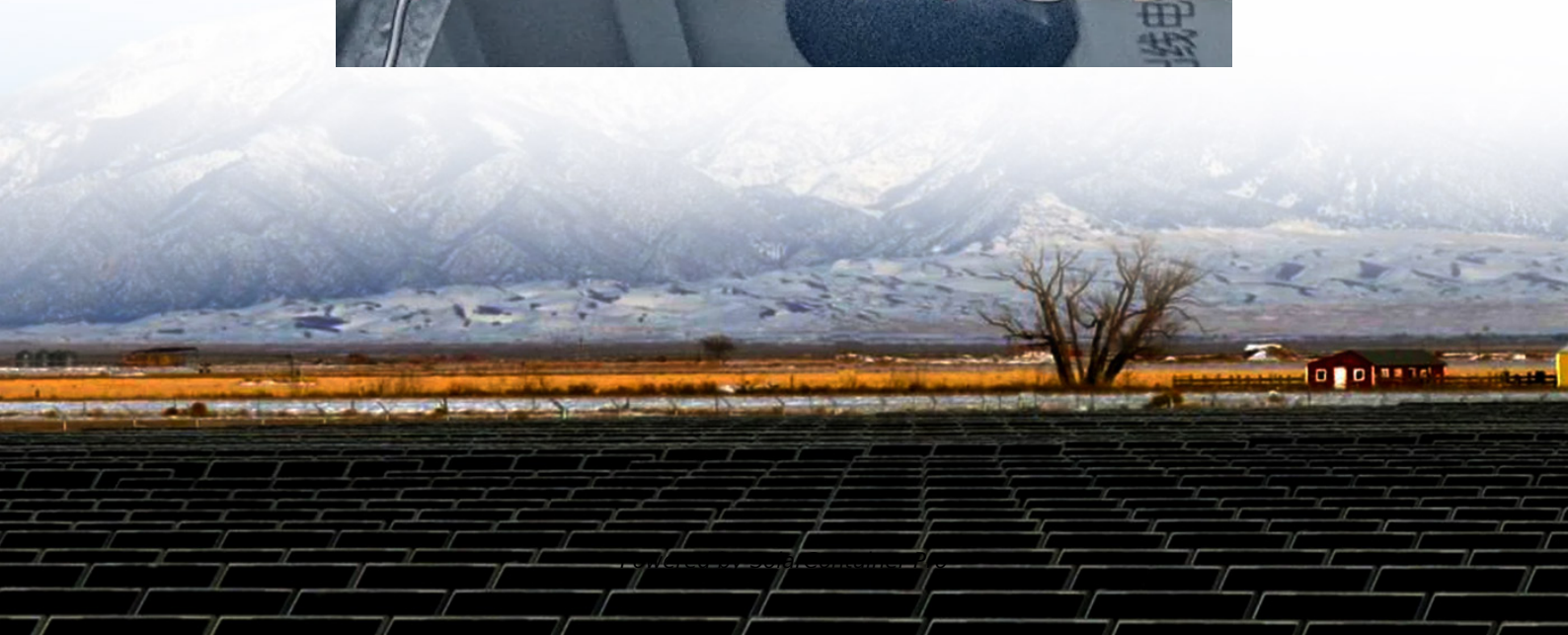
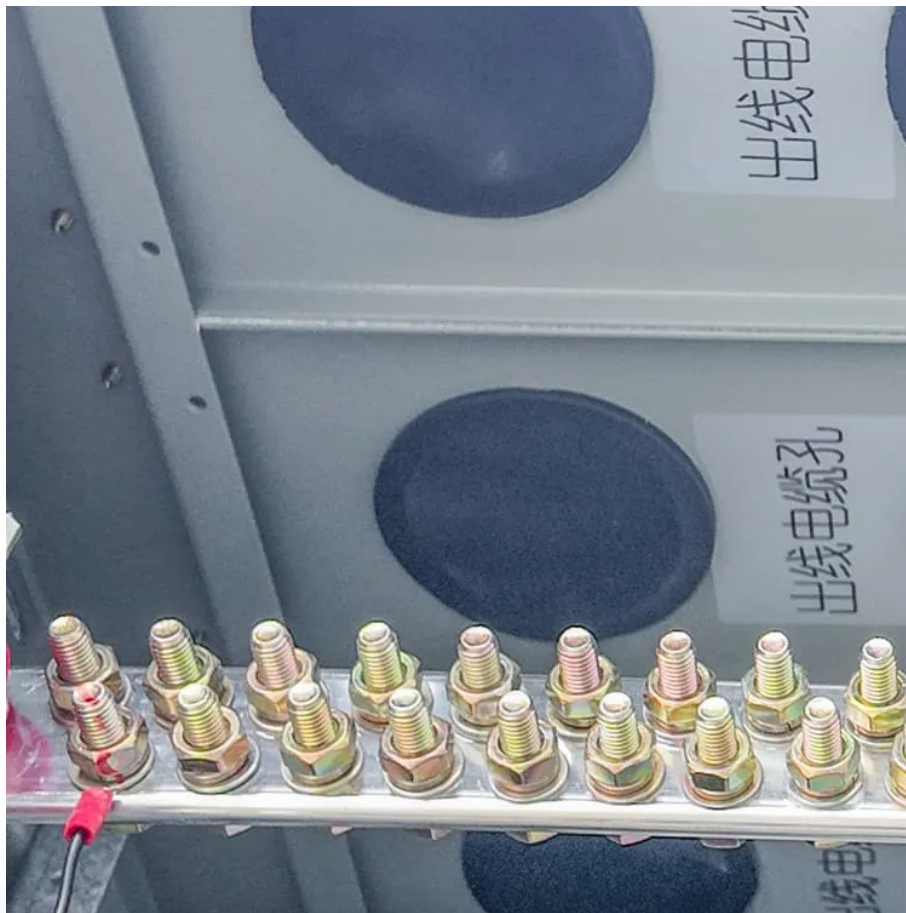


# Requirements for securing lithium battery packs





## Overview

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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 ion batteries need packaging regulations?

Lithium ion batteries, essential for a multitude of devices and applications, are subject to stringent packaging regulations set by the U.S. Department of Transportation (DOT).

What are the shipping guides for lithium cells & batteries?

For the purposes of this document, the ways to describe and configure packages of lithium cells and batteries, including smaller cells and batteries, are divided between ten distinct, standalone shipping guides. The shipping guides are numbered Guide 01 - Guide 10.

What is a lithium battery guide for shippers?

LITHIUM BATTERY GUIDE FOR SHIPPERS A Compliance Tool for All Modes of Transportation Revised October 2024 [WWW.PHMSA.DOT.GOV](http://WWW.PHMSA.DOT.GOV) 2

INTRODUCTION This compliance resource was prepared to assist a shipper to safely package lithium cells and batteries for transport by all modes of transportation according to the latest regulatory requirements.

Do lithium ion batteries need hazard communication?

- Per special provision 181 in § 172.102, a package containing both lithium ion and lithium metal batteries must include hazard communication for both battery types (See Guide 07 for Lithium Metal Battery hazard communication requirements).



What is the ICAO guidance document for lithium ion batteries?

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 Edition of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air (Technical Instructions) and the 66 th



## Requirements for securing lithium battery packs

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### [LITHIUM BATTERIES \(UN3090, UN3091, UN3480, UN3481\)](#)

Some batteries are regulated when shipped or offered for transportation. If the battery is restricted, then all applicable hazardous materials regulations must be met. This guide ...

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### [Battery Pack Requirements for EV Safety & Performance](#)

Battery packs are the heart of electric vehicles, but what goes into making a safe and reliable one? This article explores the various requirements that battery packs need to meet. ...

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Custom lithium-ion battery packs allow you to tailor capacity, voltage, and battery pack design to your unique requirements, supporting long cycle life and reliable delivery.

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### **Lithium Battery Regulations and Standards in the US: An Overview**

It requires the CPSC to publish a safety standard for the battery compartment of products to ensure that they are secure, contains warning



labeling requirements, and require ...

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### [INSTRUCTION MANUAL: BATTERY PACK DESIGN, BUILD ...](#)

For a single cell, Table 6 shows a voltage range from 2.75 to 4.2 V, a charging rate up to 2600mA (1C) and discharging rate up to 5200mA (2C). For multiple-cell packs, the guidelines for ...

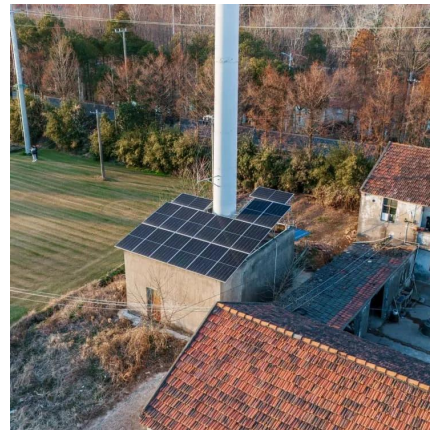
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## **Lithium-ion Battery Safety**

The hazards and controls described below are important in facilities that manufacture lithium-ion batteries, items that include installation of lithium-ion batteries, energy storage facilities, and ...

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### **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 ...

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## Lithium Battery Regulations and Standards in the US: An Overview

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 ...

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## What safety standards are in place for lithium-ion batteries in ...

This international standard specifies requirements and testing methods for the safe operation of secondary lithium-ion cells and batteries, particularly focusing on portable devices ...

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## 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 ...

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## Federal Aviation Administration bans lithium batteries in checked ...

Key Takeaways o FAA bans most lithium battery-powered items from checked luggage on all U.S. flights for safety reasons. o Power banks, spare lithium batteries, and ...

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## A Comprehensive Guide to Lithium Ion Battery Pack Certification

As battery safety is a top priority for custom battery pack manufacturers, it's crucial to ensure that lithium-ion battery packs are safe before they are distributed and used. To ensure ...

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## 10 Essential Safety Rules For Lithium Battery Pack Design

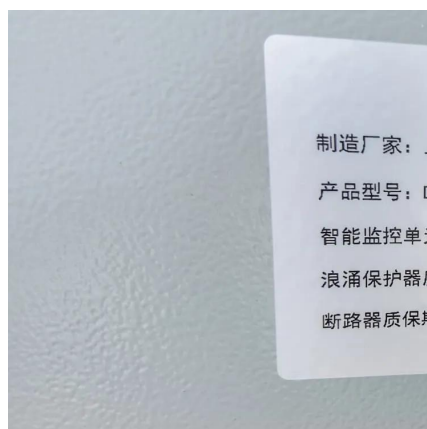
To help engineers and development teams enhance the intrinsic safety of lithium battery packs, we've summarized 10 essential safety rules based on industry best practices.

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## Lithium Battery Packaging: A Comprehensive Guide to Safe and ...

Explore everything you need to know about lithium battery packaging--from UN-certified boxes and anti-static materials to DOT and IATA regulations. Ensure compliance and ...

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