SolarTech Power Solutions

Requirements for new lithium battery packs

Overview

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 limits for air travel, mandatory state-of-charge (SOC) caps at 30% for loose cells, and enhanced fireproof packaging.

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This technical guide addresses the critical certification requirements for custom lithium-ion battery pack development. The following sections examine how design decisions affect certification readiness, compare custom versus standard battery solutions, and detail the specific testing requirements.

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. This guide provides scenario-based situations that outline the applicable requirements that a shipper.

As the demand for lithium-ion batteries grows across industries like e-bikes, medical devices, and energy storage, so do the requirements for ensuring they are safe, compliant, and ready for global markets. In 2025, navigating the complex world of battery certifications is more challenging than.

In this guide, we cover regulations and standards like the Hazardous Materials Regulations, Reese’s Law, and the Consumer Product Safety Improvement Act (CPSIA). Not that additional requirements may apply to the product that contains lithium batteries. However, this guide is primarily focused on.

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 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 Edition (2025) of the IATA Dangerous Goods Regulations (DGR). The provisions of the DGR with respect.

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