



# Marking on cylindrical lithium batteries





## Overview

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This guide explains cylindrical Li-ion battery markings based on IEC61960, including the meaning of letters, dimension codes, prismatic vs cylindrical cells, and practical examples. 1. Structure of Cylindrical Li-ion Battery Marking (IEC61960).

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Cylindrical Li-ion batteries are widely used in electronics, medical devices, power tools, and energy storage. Understanding their identification according to global standards ensures safety, compatibility, and efficient selection. This guide explains cylindrical Li-ion battery markings based on.

The lithium-ion battery symbol is a visual icon representing a battery that operates using lithium-ion chemistry. It is widely used in consumer electronics, electric vehicles, energy storage systems, and medical technology. The symbol typically shows a battery shape with a lightning bolt or spark.

Battery labels encode chemistry (e.g., "CR" for lithium), size (like "2032" indicating 20mm diameter x 3.2mm height), voltage, capacity, and safety certifications. These alphanumeric codes help users identify compatibility, performance, and handling requirements for devices ranging from watches to.

IEC 62902:2025 specifies methods for the clear identification of secondary cells, batteries, battery modules and monoblocs according to their chemistry (electrochemical storage technology). when they are placed on the market for end use and when their battery volume exceeds 900 cm<sup>3</sup>. The chemistry.

To reduce global reliance on the mining of virgin raw materials, including cobalt and lithium, the United States will need to increase the recovery of these critical materials from end-of-life (EOL) batteries. However, increasing these recovery rates will require overcoming the current.

Certification listings on your battery packaging indicate that they have either been



rigorously tested to meet the high standards of recognized testing laboratories, or that they meet stringent requirements to be manufactured or sold in specific geographic regions. Although many of the testing.



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### [Laser Marking in the Battery Industry , KEYENCE ...](#)

Discover laser marker applications in lithium-ion battery manufacturing. Learn about lithium battery production and manufacturing processes.

### [Lithium Battery Symbol Guide for Professionals](#)

This guide will explore everything engineers must know about lithium-ion battery symbols. We will cover symbol variations, terminal ...

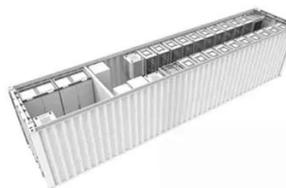


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### **IEC 62902:2025 , IEC**

The chemistry marking is useful for the installation, operation and ...



## IEC 62902:2025 , IEC

The chemistry marking is useful for the installation, operation and decommissioning phases in the battery's life cycle. This document defines the conditions of use of the markings indicating the ...

## A review and analysis of the safety labeling of lithium-ion batteries

Warning labels (or marking) of these batteries are essential to ensure safe handling, operation, and disposal, thereby mitigating potential safety risks and preventing accidents. ...



## [White Paper Summarizing Existing Battery Labeling ...](#)

By developing new voluntary battery labeling guidelines, EPA seeks to increase consumer awareness of the presence of batteries in products and to empower consumers to properly ...



## Understanding Battery Labeling: What the Letters on a Battery Mean



Battery labels encode chemistry (e.g., "CR" for lithium), size (like "2032" indicating 20mm diameter x 3.2mm height), voltage, capacity, and safety certifications.



Voltage range: 91.2-947.2V

>6000 cycles (100%DOD)

Rated battery capacity: 216kWh (customizable)

BMS communication: 4G/CAN/RS485

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### [Laser Marking in the Battery Industry . KEYENCE America](#)

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### [Battery certification imprints and certifying authorities](#)



In this article, we'll review the significance of some of the more frequent certification listing marks commonly imprinted on batteries or their packaging.



### Battery Identification 101

Mixed cells (alkaline and lithium) can pose a fire hazard due to short circuit of the lithium types but the risk is substantially less than with exclusively lithium types

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### 1321580

The Model Regulations require the lithium battery mark in section 5.2.1.9 and shown below to be placed on nearly all packages containing small lithium ion and lithium metal cells and batteries ...



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