

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Secondary cells and batteries containing alkaline or other non-acid electrolytes  
– Safety requirements for portable sealed secondary cells, and for batteries  
made from them, for use in portable applications –  
Part 2: Lithium systems**

**Accumulateurs alcalins et autres accumulateurs à électrolyte non acide –  
Exigences de sécurité pour les accumulateurs portables étanches,  
et pour les batteries qui en sont constituées, destinés à l'utilisation dans des  
applications portables –  
Partie 2: Systèmes au lithium**



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Partie 2: Systèmes au lithium**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 29.220.30

ISBN 978-2-8322-1006-4

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# VERSION REDLINE

**Secondary cells and batteries containing alkaline or other non-acid electrolytes  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

# SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES – SAFETY REQUIREMENTS FOR PORTABLE SEALED SECONDARY CELLS, AND FOR BATTERIES MADE FROM THEM, FOR USE IN PORTABLE APPLICATIONS –

## Part 2: Lithium systems

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**In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.**

International Standard IEC 62133-2 has been prepared by subcommittee 21A: Secondary cells and batteries containing alkaline or other non-acid electrolytes, of IEC technical committee 21: Secondary cells and batteries.

This first edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 62133:2012:

- separation of nickel systems into a separate Part 1;
- inclusion of coin cell requirements;
- update of assembly of cells into batteries (5.6);
- mechanical tests [vibration, shock] (7.3.8.1, 7.3.8.2);
- insertion of IEC TR 62914 within the Bibliography.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The following different practices of a less permanent nature exist in the countries indicated below.

7.3.9: Design evaluation – Forced internal short-circuit test only applies to Korea, Japan, Switzerland and France.

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