

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Secondary cells and batteries containing alkaline or other non-acid electrolytes
– Sealed nickel-metal hydride cells and batteries for use in industrial
applications –
Part 1: Performance**

**Accumulateurs alcalins et autres accumulateurs à électrolyte non acide –
Accumulateurs étanches au nickel-métal hydrure destinés à l'utilisation dans les
applications industrielles –
Partie 1: Performances**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SECONDARY CELLS AND BATTERIES CONTAINING
ALKALINE OR OTHER NON-ACID ELECTROLYTES –
SEALED NICKEL-METAL HYDRIDE CELLS AND
BATTERIES FOR USE IN INDUSTRIAL APPLICATIONS –****Part 1: Performance**

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IEC 63115-1 edition 1.1 contains the first edition (2020-01) [documents 21A/716/FDIS and 21A/720/RVD] and its amendment 1 (2022-11) [documents 21A/811/FDIS and 21A/820/RVD].

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 63115-1 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 document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 63115, published under the general title *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Sealed nickel-metal hydride cells and batteries for use in industrial applications*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under webstore.iec.ch in the data related to the specific publication. At this date, the publication will be

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SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES – SEALED NICKEL-METAL HYDRIDE CELLS AND BATTERIES FOR USE IN INDUSTRIAL APPLICATIONS –

Part 1: Performance

1 Scope

This document specifies the marking, designation, tests and requirements for sealed nickel-metal hydride cells and batteries used in industrial applications, including stationary applications.

When an IEC International Standard specifying test conditions and requirements for cells used in special applications is in conflict with this document, the former takes precedence (e.g. IEC 62675).

The following are some examples of applications that utilize the cells and batteries falling under the scope of this document.

- Stationary applications: telecom, uninterruptible power supplies (UPS), electrical energy storage system, utility switching, emergency power and similar applications.
- Motive applications: fork-lift truck, golf cart, AGV (Automatic Guided Vehicle), railway, and marine, excluding road vehicles.

Since this document covers batteries for various industrial applications, it includes those requirements that are common and minimum to the various applications.

This document applies to cells and batteries. If the battery is divided into smaller units, the smaller unit can be tested as representative of the battery. The manufacturer clearly declares the tested unit. The manufacturer can add functions to the tested unit that are present in the final battery.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-482:2004, *International Electrotechnical Vocabulary (IEV) – Part 482: Primary and Secondary cells and batteries*

IEC 61434:1996, *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Guide to the designation of current in alkaline secondary cell and battery standards*

IEC 62675:2014, *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Sealed nickel-metal hydride prismatic rechargeable single cells*

ISO/IEC Guide 51, *Safety aspects – Guidelines for their inclusion in standards*