
Alkaline secondary cells and batteries - Sealed nickel-cadmium rechargeable monobloc batteries in button cells design

Alkaline secondary cells and batteries - Sealed nickel-cadmium rechargeable monobloc batteries in button cell design

Nickel-Cadmium-Akkumulatoren - Wiederaufladbare gasdichte Nickel-Cadmium-Blockbatterien in Knopfzellenbauweise

Accumulateurs alcalins - Batteries monobloc d'éléments boutons rechargeables et recouvertes de nickel-cadmium

[SIST EN 61150:1997](https://standards.iteh.ai/catalog/standards/sist/f4cfd7c6-472d-4c8a-a774-699192937888/sist-en-61150-1997)

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Ta slovenski standard je istoveten z: EN 61150:1993

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29.220.30 Alkaline secondary cells and batteries

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EUROPEAN STANDARD

EN 61150

NORME EUROPEENNE

EUROPÄISCHE NORM

November 1993

UDC 621.355.82-213.34:621.311.61

Descriptors: Electrochemical batteries, alkaline batteries,
nickel-cadmium batteries, marking, dimensions

ENGLISH VERSION

Alkaline secondary cells and batteries
Sealed nickel-cadmium rechargeable monobloc
batteries in button cell design
(IEC 1150:1992 + corrigendum 1992)

Accumulateurs alcalins
Batteries monobloc d'éléments
boutons rechargeables étanches
au nickel-cadmium
(CEI 1150:1992 + corrigendum 1992)

Nickel-Cadmium-Akkumulatoren
Wiederaufladbare gasdichte
Nickel-Cadmium-Blockbatterien
in Knopfzellenbauweise
(IEC 1150:1992 + Corrigendum 1992)

This European Standard was approved by CENELEC on 1993-09-22.
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which stipulate the conditions for giving this European Standard the status of
a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards
may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German).
A version in any other language made by translation under the responsibility of
a CENELEC member into its own language and notified to the Central Secretariat
has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium,
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,
Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B-1050 Brussels

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 1150:1992 and its corrigendum March 1992 could be accepted without textual changes, has shown that no common modifications were necessary for the acceptance as European Standard.

The reference document was submitted to the CENELEC members for formal vote and was approved by CENELEC as EN 61150 on 22 September 1993.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-09-01
- latest date of withdrawal of conflicting national standards (dow) 1994-09-01

For products which have complied with the relevant national standard before 1994-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1999-09-01.

Annexes designated "normative" are part of the body of the of the standard.

In this standard, annex ZA is normative.

SIST EN 61150:1997

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69e1b1c1c1c1 ENDORSEMENT NOTICE

The text of the International Standard IEC 1150:1992 and its corrigendum March 1992 was approved by CENELEC as a European Standard without any modification.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE : When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
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509	1988	Sealed nickel-cadmium button rechargeable single cells	HD 561 S1	1991

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NORME
INTERNATIONALE
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STANDARD

CEI
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1150

Première édition
First edition
1992-03

Accumulateurs alcalins

**Batteries monobloc d'éléments boutons
rechargeables étanches au nickel-cadmium**

iTeh STANDARD PREVIEW

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Alkaline secondary cells and batteries

**Sealed nickel-cadmium rechargeable
monobloc batteries in button cell design**

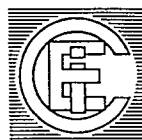
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International Electrotechnical Commission
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALKALINE SECONDARY CELLS AND BATTERIES

Sealed nickel-cadmium rechargeable
monobloc batteries in button cell design

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

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This International Standard has been prepared by Sub-Committee 21A: Alkaline secondary cells and batteries, of IEC Technical Committee No. 21: Secondary cells and batteries.

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The text of this standard is based on the following documents:

DIS	Report on Voting
21A(CO)69	21A(CO)72

Full information on the voting for the approval of this standard can be found in the Voting Report indicated in the above table.

ALKALINE SECONDARY CELLS AND BATTERIES

Sealed nickel-cadmium rechargeable monobloc batteries in button cell design

SECTION ONE – GENERAL

1.1 Scope

This International Standard specifies tests and requirements for sealed nickel-cadmium rechargeable monobloc batteries in button cell design, suitable for use in any orientation.

1.2 The following normative document contains provisions which, by reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All normative documents are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 509: 1988, *Sealed nickel-cadmium button rechargeable single cells.*

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1.3 Definitions

For the purpose of this standard, the following definitions apply:

1.3.1 *Monobloc batteries in button cell design*

Battery of a circular cross-section containing two or more (n) nickel-cadmium single cells connected in series having only one outer casing forming positive polarity and having only one cover forming negative polarity.

Sealed monobloc batteries in button cell design remain closed and do not release either gas or liquid when operated within the limits of charge and temperature specified by the manufacturer. The batteries may be equipped with safety devices to prevent dangerously high internal pressure.

The batteries do not require addition to the electrolyte and they are designed to operate during their lives in their original sealed condition.

1.3.2 *Nominal voltage*

The nominal voltage of a sealed nickel-cadmium monobloc battery in button cell design is 1,2 V times the number (n) of single cells forming the battery:

$$U_N = n \times 1,2 \text{ V}$$