



EEDC 2 (5173) P3

IEC 61951-2:2017

## **DRAFT TANZANIA STANDARD**

**(Draft for comments only)**

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**Secondary cells and batteries containing alkaline or other non-acid electrolytes-Portable sealed rechargeable single cells**

**Part 2: Nickel-metal hydride**

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**TANZANIA BUREAU OF STANDARDS**

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## **0 National Foreword**

This draft Tanzania Standard is being prepared by the Cells and Batteries Technical Committee, under the supervision of the Electrical Engineering Divisional Standards Committee (EEDC)

This draft Tanzania Standard is an adoption of the International Standard **IEC 61951-2:2017**

Secondary cells and batteries containing alkaline or other non-acid electrolytes-Portable sealed rechargeable single cells Part 2: Nickel-metal hydride, which has been prepared by the International Electrotechnical Commission (IEC).

### **Terminology and conventions**

Some terminologies and certain conventions are not identical with those used in Tanzania Standards; Attention is drawn especially to the following:

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker.
- 2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications – Part 2: Nickel-metal hydride**

**Accumulateurs alcalins et autres accumulateurs à électrolyte non acide – Accumulateurs étanches pour applications portables – Partie 2: Nickel-métal hydrure**



## CONTENTS

FOREWORD .....	5
1 Scope .....	7
2 Normative references .....	7
3 Terms and definitions .....	7
4 Parameter measurement tolerances .....	9
5 Cell and battery designation and marking .....	10
5.1 Cell and battery designation .....	10
5.1.1 Small prismatic cells and cylindrical cells .....	10
5.1.2 Button cells.....	11
5.1.3 Batteries .....	12
5.2 Cell or battery termination .....	12
5.3 Marking .....	12
5.3.1 Small prismatic cells and cylindrical cells .....	12
5.3.2 Button cells.....	13
5.3.3 Batteries .....	13
5.4 Exemption of wording.....	13
6 Dimensions.....	13
6.1 Small prismatic cells and cylindrical cells .....	13
6.1.1 General .....	13
6.1.2 Small prismatic cells .....	14
6.1.3 Cylindrical cells .....	14
6.2 Button cells .....	16
6.3 9 V type nickel-metal hydride batteries .....	17
7 Electrical tests .....	18
7.1 General .....	18
7.2 Charging procedure for test purposes .....	18
7.2.1 Charging procedure for cell.....	18
7.2.2 Charging procedure for battery .....	18
7.3 Discharge performance .....	18
7.3.1 General .....	18
7.3.2 Discharge performance at 20 °C .....	19
7.3.3 Discharge performance at 0 °C .....	20
7.3.4 Discharge performance for rapid charge cells (R cells) .....	21
7.4 Charge (capacity) retention .....	21
7.5 Endurance .....	22
7.5.1 Endurance in cycles.....	22
7.5.2 Permanent charge endurance .....	25
7.6 Charge acceptance at constant voltage .....	28
7.7 Overcharge .....	28
7.7.1 Small prismatic, L, M, H, X, LS or MS cylindrical, and button cells .....	28
7.7.2 LT/LU, MT/MU or HT/HU cylindrical cells .....	29
7.7.3 J cylindrical cells .....	29
7.7.4 JT cylindrical cells .....	29
7.7.5 R cylindrical cells .....	30
7.8 Safety device operation .....	30
7.9 Surface temperature limitation device operation (for S cell only) .....	30

7.10	Storage .....	31
7.10.1	Button cells or batteries, small prismatic cells or batteries, cylindrical cells or batteries.....	31
7.10.2	Button cells or batteries, small prismatic cells or batteries, cylindrical cells or batteries (high recovery type) .....	32
7.11	Charge acceptance at +55 °C for LT, MT or HT cylindrical cells .....	33
7.12	Trickle charge acceptance for JT cylindrical cells .....	34
7.13	Internal resistance .....	34
7.13.1	General .....	34
7.13.2	Measurement of the internal AC resistance .....	35
7.13.3	Measurement of the internal DC resistance .....	35
8	Mechanical tests .....	36
9	Safety requirements .....	36
10	Type approval and batch acceptance .....	36
10.1	General .....	36
10.2	Type approval .....	36
10.2.1	Type approval for small prismatic cells and button cells .....	36
10.2.2	Type approval for cylindrical cells .....	40
10.2.3	Type approval for batteries .....	42
10.3	Batch acceptance .....	43
		45
<hr/>		
	Figure 1 – Jacketed cylindrical cells .....	14
	Figure 2 – Jacketed small prismatic cells .....	14
	Figure 3 – Jacketed cells dimensionally interchangeable with primary cells .....	15
	Figure 4 – Button cells .....	17
	Figure 5 – 9 V type nickel-metal hydride batteries .....	17
	<hr/>	
	Table 1 – Dimensions of jacketed small prismatic cells .....	14
	Table 2 – Dimensions of jacketed cylindrical cells dimensionally interchangeable with .....	15
	<hr/>	
	Table 3 – Dimensions of jacketed cylindrical cells not dimensionally interchangeable with primary cells .....	16
	Table 4 – Dimensions of button cells.....	17
	Table 5 – Dimensions of 9 V type nickel-metal hydride batteries .....	18
	Table 6 – Discharge performance at 20 °C for small prismatic cells and cylindrical cells .....	19
	Table 7 – Discharge performance at 20 °C for button cells .....	19
	Table 8 – Discharge performance at 20 °C for batteries .....	20
	Table 9 – Rated capacity (mAh) compliance test (example) .....	20
	Table 10 – Discharge performance at 0 °C for small prismatic cells and cylindrical cells .....	21
	Table 11 – Discharge performance at 0 °C for button cells .....	21
	Table 12 – Endurance in cycles for small prismatic, button and cylindrical cells not dimensionally interchangeable with primary cells .....	22
	Table 13 – Endurance in cycles for H or X cells .....	23
	Table 14 – Endurance in cycles for X cells .....	23
	Table 15 – Endurance in cycles for HR or XR cells .....	24

Table 16 – Endurance in cycles for cylindrical cells dimensionally interchangeable with primary cells .....	24
Table 17 – Permanent charge endurance for L, M, H or X cells .....	25
Table 18 – Permanent charge endurance for LT, MT or HT cells .....	26
Table 19 – Permanent charge endurance for LU, MU or HU cells .....	28
Table 20 – Overcharge at 0 °C.....	29
Table 21 – Capacity deterioration due to storage period for cells or batteries .....	32
Table 22 – Capacity deterioration due to storage period for cells or batteries (high recovery type).....	33
Table 23 – Charge and discharge at +55 °C .....	34
Table 24 – Trickle charge acceptance for JT cylindrical cells.....	34
Table 25 – Constant discharge currents used for measurement of DC resistance.....	36
Table 26 – Sequence of tests for type approval for small prismatic cells .....	37
Table 27 – Sequence of tests for type approval for small prismatic cells (high recovery type) .....	38
Table 28 – Sequence of tests for type approval for button cells .....	39
Table 29 – Sequence of tests for type approval for button cells (high recovery type).....	40
Table 30 – Sequence of tests for type approval for cylindrical cells.....	41
Table 31 – Sequence of tests for type approval for cylindrical cells (high recovery type) .....	42
Table 32 – Sequence of tests for type approval for batteries .....	43
Table 33 – Sequence of tests for type approval for batteries (high recovery type) .....	43
Table 34 – Recommended test sequence for batch acceptance .....	44

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

# SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES – SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS –

## Part 2: Nickel- metal hydride

### FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61951-2 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 fourth edition cancels and replaces the third edition published in 2011 of which it constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- addition of battery type;
- addition of 'F' (high recovery type) designation for cells and batteries;
- addition of 'I' (low self-discharge type) designation for cells;

- revision of Figure 3 (6.1.3.1);
- addition of “optional pip” note to positive contact;
- changed leader line position from pip to flats of positive contact (B and G).

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

FDIS	Report on voting
21A/623/FDIS	21A/629/RVD

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

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

A list of all parts of the IEC 61951 series can be found, under the general title *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications*, on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.



# SECONDARY CELLS AND BATTERIES CONTAINING ALKALINE OR OTHER NON-ACID ELECTROLYTES – SECONDARY SEALED CELLS AND BATTERIES FOR PORTABLE APPLICATIONS –

## Part 2: Nickel- metal hydride

### 1 Scope

This part of IEC 61951 specifies marking, designation, dimensions, tests and requirements for secondary sealed nickel -metal hydride small prismatic, cylindrical and button cells and batteries, suitable for use in any orientation, for portable applications.

### 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 60086-1, *Primary batteries – Part 1: General*

IEC 60086-2, *Primary batteries – Part 2: Physical and electrical specifications*

IEC 61959, *Secondary cells and batteries containing alkaline or other non-acid electrolytes – Mechanical tests for sealed portable secondary cells and batteries*

IEC 62133-1, *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 1: Nickel systems*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-482 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

#### 3.1

##### **nominal voltage**

suitable approximate value of the voltage used to designate or identify a cell or a battery

Note 1 to entry: The nominal voltage of a sealed nickel-metal hydride rechargeable single cell is 1,2 V.

Note 2 to entry: The nominal voltage of a battery of  $n$  series connected cells is equal to  $n$  times the nominal voltage of a single cell.