

Translated and Published by Japanese Standards Association

JIS C 8515: 2022

(BAJ/JSA)

Primary batteries — Physical and electrical specifications

ICS 29.220.10 Reference number : JIS C 8515 : 2022 (E)

Date of Establishment: 2007-01-20

Date of Revision: 2022-08-22

Date of Public Notice in Official Gazette: 2022-08-22

Investigated by: Japanese Industrial Standards Committee

Standards Board for IEC area

Technical Committee on Electricity

JIS C 8515 : 2022, First English edition published in 2023-10

Translated and published by: Japanese Standards Association Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

> In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

© JSA 2023

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

Contents

Page

Introduction 1		
1	Scope1	
2	Normative references ······1	
$3 \\ 3.1 \\ 3.2$	Terms, definitions, symbols and abbreviated terms2Terms and definitions2Symbols and abbreviated terms4	
4	Battery dimensions, symbols4	
5	Dimensional stability ·······4	
6	Validity of testing ······4	
7	Constitution of the battery specification tables	
8	Electrical specifications and dimensions of batteries categorized by shape	
8.0A 8.1 8.2 8.3 8.4 8.5 8.6 9 9.1 9.2 9.3 9.4 9.5 9.6	Shape6General6Category 1 batteries8Category 2 batteries14Category 3 batteries15Category 4 batteries16Category 5 batteries26Category 6 batteries29Quality41Dimensions41Terminals41Appearance41Open-circuit voltage (OCV) testing41Discharge performance41Leakage and deformation41	
9.7	Safety ····································	
$10 \\ 10.1 \\ 10.2 \\ 10.3$	Tests and inspections 41 Tests 41 Type inspection 42 Acceptance inspection 42	
11	Marking ······42	
Annex A (informative) Tubulation of batteries by application		
Annex	x B (informative) Cross-reference index	

Annex C (informative)	Index
Annex D (informative)	Common designation55
Annex E (informative)	Compliance checklist
Annex JA (informative)	Comparison table between JIS and corresponding International Standard58

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Battery Association of Japan (BAJ)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (JIS C 8515 : 2017), which has been technically revised.

However, **JIS C 8515** : 2017 may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 21 February 2023.

This **JIS** document is protected by the Copyright Act.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

Blank

Primary batteries — Physical and electrical specifications

Introduction

This Japanese Industrial Standard has been prepared based on **IEC 60086-2** : 2021, Edition 14, with some modifications of the technical contents as a product standard.

In this Standard, sublcause and figure numbers followed by a capital letter of Latin alphabet starting with "A" indicate that the subclause or figure includes items not given in the corresponding International Standard.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the size and dimensions, the electrical specifications (e.g. discharge performance), <u>quality</u>, <u>test methods and marking</u> of primary batteries.

This Standard is applicable to primary batteries specified in Table 1 of JIS C 8500.

- NOTE 1 A checklist for ensuring conformity of primary battery designation with this Standard is given in Annex E.
- NOTE 2 The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60086-2: 2021 Primary batteries — Part 2: Physical and electrical specifications (MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

- JIS B 0021 Geometrical product specifications (GPS) Geometrical tolerancing Tolerancing of form, orientation, location and run-out
- NOTE Normative reference in the corresponding International Standard : ISO 1101 Geometrical product specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out
- JIS C 8500 Primary batteries General
- NOTE Normative reference in the corresponding International Standard : IEC 60086-1 Primary batteries Part 1 : General