



DPC: 24 / 30481626 DC

BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000

Fax: +44 (0)20 8996 7400

www.bsigroup.com

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Responsible committee: CPL/35 Primary cells

Interested committees:

Title: BS EN IEC 60086-2-2 Primary batteries

Part 2-2: Physical and electrical specifications of lithium batteries

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- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Responsible Committee Secretary: **Lilly Malik (BSI)**

Direct tel:

E-mail: lilly.malik@bsigroup.com

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



35/1551/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 60086-2-2 ED1

DATE OF CIRCULATION:

2024-09-06

CLOSING DATE FOR VOTING:

2024-11-29

SUPERSEDES DOCUMENTS:

35/1532/CD, 35/1538A/CC

IEC TC 35 : PRIMARY CELLS AND BATTERIES	
SECRETARIAT: Japan	SECRETARY: Mr Takao Uyama
OF INTEREST TO THE FOLLOWING COMMITTEES: SC 3C, TC 21, SC 21A, TC 61, TC 108	HORIZONTAL FUNCTION(S):
ASPECTS CONCERNED:	
☒ SUBMITTED FOR CENELEC PARALLEL VOTING Attention IEC-CENELEC parallel voting The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Primary batteries - Part 2-2: Physical and electrical specifications of lithium batteries

PROPOSED STABILITY DATE: 2029

NOTE FROM TC/SC OFFICERS:

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRIMARY BATTERIES –

**Part 2-2:
Physical and electrical specifications
of lithium batteries**

FOREWORD

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- International Standard IEC 60086-2-2 has been prepared by IEC technical committee 35: Primary cells and batteries.
- This first edition cancels and replaces the fourteenth edition of IEC 60086-2 published in 2021. This edition constitutes a technical revision.
- This edition includes the following significant technical changes with respect to the previous edition:
- a) separation of batteries with aqueous electrolyte into a separate Part 2-1: Physical and electrical specifications;
 - b) maximum open circuit voltage of FR10G445 and FR14505 was changed from 1,83 to 1,90 V;
 - c) load of digital audio test for FR10G445 was changed from 50mA to 75mA and MAD was modified;
 - d) portable lighting test was added for FR10G445;
 - e) motor/toy and radio /clock /remote control test was added for FR14505;

f) Annex D for common designation of IEC 60086-2:2021 was moved to IEC 60086-1, as Annex H.

g)

h) The text of this International Standard is based on the following documents:

CD	Report on voting
35/XXXX/CD	35/XXXX/XX

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in the IEC 60086 series, under the general title *Primary batteries*, can be found on the IEC website.

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

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

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INTRODUCTION

146 The technical content of this part of IEC 60086 provides physical dimensions, discharge test
147 conditions and discharge performance requirements. IEC 60086-2-1 and IEC 60086-2-2
148 complement the general information and requirements of IEC 60086-1. Safety information of
149 IEC 60086-2-2 is available in IEC 60086-4 and IEC 62281.

150 This part was prepared to benefit primary battery users, device designers and battery
151 manufacturers by furnishing the specifics of form, fit and function for individual standardized
152 primary cells and batteries. Over the years, this part has been changed to improve its contents
153 and may again be revised in due course in the light of comments made by national committees
154 and experts on the basis of practical experience and changing technology.

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