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Project No. 2024/01390

Responsible committee: CPL/61/21 Toys

Interested committees:

Title: BS EN IEC 62115/AMD1 Amendment 1 - Electric toys - Safety

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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THIS DRAFT IS NOT CURRENT BEYOND 14 August 2024**

This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Responsible Committee Secretary: Ms Charmaine Mukherjee (BSI)

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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 Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.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.	



COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

IEC 62115/AMD1 ED2

DATE OF CIRCULATION:

2024-06-21

CLOSING DATE FOR VOTING:

2024-09-13

SUPERSEDES DOCUMENTS:

61/7199/RR

IEC TC 61 : SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES

SECRETARIAT:

United States of America

SECRETARY:

Ms Randi Myers

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC☐ ENVIRONMENT☐ QUALITY ASSURANCE☒ SAFETY☒ SUBMITTED FOR CENELEC PARALLEL VOTING☐ NOT 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.

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:

Amendment 1 - Electric toys - Safety

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

This document is circulated according to the decision from 61/7133/Q and 61/7158/RQ

3 Terms and definitions

3.4.2 Replace the definition with the following:

power supply incorporating a **transformer for toys** not fixed to, or incorporated in, **electric toys** designed to have a **rated voltage** not exceeding 24 V direct current (DC) or 24 V alternating current (AC)

Add the following definition

3.5.5 mobile toy

self-propelled **electric toy** capable of moving from a location to another under its own force.

Note 1 to entry: An electric toy with moving part but unable to move from one location to another is not a mobile toy.

3.6.2 Replace definition of battery box with the following:

battery

assembly of one or more **cells** ready for use as a source of electrical energy, characterised by its voltage, size, terminal arrangement, capacity and rated capability

Note 1 to entry: A **detachable battery** and **separable battery** have an enclosure that is equivalent in properties to that of the toy itself, but **integral batteries** may have no enclosure or an enclosure less substantial than that of the toy, as they are protected by the enclosure of the toy.

Add the following new definitions.

3.6.10

cell

basic functional unit, consisting of an assembly of electrodes, electrolyte, container, terminals, and usually separators that is a source of electric energy obtained by direct conversion of chemical energy

[SOURCE: IEC 60050-482:2004, 482-01-01]

3.6.11

detachable battery

battery in an enclosure separate from the **toy**, intended for use with specific toys and intended to be removed from the toy

Note 1 to entry: A standard automotive **battery** is not considered a **detachable battery**.

Note 2 to entry: A **detachable battery** is not considered a **battery** that is replaceable.

3.6.12

integral battery

battery contained within the **toy**, not intended to be removed from the toy

Note 1 to entry: A **battery** that is only to be removed from the **battery-operated appliance** for disposal or recycling is still considered to be an **integral battery**.

3.6.13

separable battery

battery contained in an enclosure separate from the **toy**, intended for use with specific toys and connected to the toy by a cord

Note 1 to entry: A standard automotive **battery** is not considered a **separable battery**.

Note 2 to entry: A **separable battery** is not considered a **battery** that is replaceable.

42 5 General conditions for tests

43 5.2 Preconditioning

44 Add “other than toy scooters” after “for wheeled ride-on **electric toys**” in the 5th dashed item of the last
45 paragraph.

46 5.7.3 Toys using battery boxes

47 Replace the subclause title with the following:

48 Toys using detachable batteries or separable batteries

49 *Toys intended for use with a **detachable battery** or a **separable battery** are tested with the **battery** supplied*
50 *with the **toy** or with the **battery** recommended in the instructions.*

51 5.7.6 Electric toys using other power supplies

52 Replace the first sentence with the following:

53 ***Electric toys** using a USB connection for a **power supply** shall be supplied with a voltage between 5V*
54 *and 20V as applicable considering the USB protocol that can be supported by the **electric toy**.*

55 6 Criteria for reduced testing

56 6.2 Short-circuit resistance

57 Replace the first sentence with the following:

58 Clause 8, clause 9 except 9.6 and 9.8, and clauses 10, 11, 13.3, 13.7, 17 and 18 are not applicable to
59 **electric toys** that comply with the requirements of clause 9, except 9.6 and 9.8, with any insulation
60 between parts of different polarity short circuited in turn.

61 7 Marking and instructions

62 7.1 General

63 Add the following after the last paragraph.

64 The warnings shall be preceded by the words “Warning” or “Warnings”, as appropriate (i.e. instead of repeating
65 the word “Warning” before each warning when several of the warnings in this standard are present, the word
66 “Warnings” may be used once). The word “Warning” or “Warnings” may be capitalized or followed by
67 punctuation, e.g. an exclamation mark.

68 7.2.2 Electric toys with replaceable batteries

69 Replace the subclause title with the following:

70 Electric toys with replaceable batteries or separable batteries

71 Replace the first paragraph with the following:

72 **Electric toys** with **replaceable batteries** shall be marked with the shape of the **batteries**, together
73 with the nominal voltage and polarity, in or on the **battery** compartment or other suitable place close
74 to the **batteries** on the **electric toy**. The positive terminal shall be indicated by symbol IEC 60417-
75 5005 (2002-10). It is acceptable to place these markings on or inside the battery compartment cover.

76 Replace the third paragraph with the following:

77 **Electric toys** with **separable batteries** shall be marked with: