



SLOVENSKI STANDARD
SIST EN IEC 62115:2020/oprA1:2024
01-julij-2024

Električne igrače - Varnost - Dopolnilo A1

Amendment 1 - Electric toys - Safety

Elektrische Spielzeuge - Sicherheit

Jouets électriques - Sécurité

Ta slovenski standard je istoveten z: EN IEC 62115:2020/prA1:2024

ICS:

13.120 Varnost na domu Domestic safety
97.200.50 Igrače Toys

SIST EN IEC 62115:2020/oprA1:2024 en



61/7248/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

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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: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input checked="" type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> 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.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

SIST EN IEC 62115:2020/oprA1:2024

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TITLE:

Amendment 1 - Electric toys - Safety

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

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1 3 Terms and definitions

2 3.4.2 Replace the definition with the following:

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

6 Add the following definition

7 3.5.5 8 mobile toy

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

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

11 3.6.2 Replace definition of battery box with the following:

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

15 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
16 **integral batteries** may have no enclosure or an enclosure less substantial than that of the toy, as they are protected by the enclosure of
17 the toy.

18 Add the following new definitions.

19 3.6.10 20 cell

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

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

24 3.6.11 25 detachable battery

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

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

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

30 3.6.12 31 integral battery

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

33 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
34 an **integral battery**.
35

36 3.6.13 37 separable battery

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

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

41 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:

- 78 – the nominal **battery** voltage, and
 79 – the symbol for DC (symbol IEC 60417-5031 (2002-10)) shown in 7.2.6 in or on the **battery**
 80 compartment or other suitable place on the electric toy, close to the **battery** plug or socket.
 81 This does not apply where connection to other **batteries** or power sources is prevented by construction.

82 7.2.3 Transformer toys and power supply toys

83 Replace the first dashed item with the following:

- 84 - their **rated voltage**, in volts, unless it is impossible to supply the **electric toy** with another voltage. An
 85 example of **electric toy** that cannot be supplied with another voltage is a USB-C **electric toy** that cannot
 86 accept a higher voltage than 5V by construction;

87 7.3.1 General

88 Add the following paragraph before “compliance is check by inspection”.

89 In the case where an indication for a specific hazard is required on the packaging or to be visible at the
 90 time of purchase, it is possible to combine the indication of specific hazard with the indication for specific
 91 hazard related to the same age restriction from another toy standard if the specific hazard relating to
 92 this standard is indicated in the instructions (e.g., Small part).

93 7.3.2 Transformers toys and power supply toys

94 Add the following after “Warning: Not suitable for children under 3 years.

95 Alternatively, the following wording may be used:

96 WARNING: Not suitable for children under 36 months

97 7.3.3 Replace the subclause title with the following:

98 **Electric toys that are used with replaceable batteries, detachable batteries or separable batteries**

99 7.3.3.1 General

100 Replace the paragraph after the last dashed item of the first paragraph:

101 The instructions for **electric toys** supplied by a **detachable battery** or by a **separable battery** shall
 102 state that the toy is not to be connected to more than the recommended number of power supplies. The
 103 instruction need not be added if the connections cannot be made easily without the aid of a **tool** and
 104 using parts from two identical **electric toys** or **constructional sets**.

105 7.3.3.2 Coin batteries

106 Replace with the following:

107 **Electric toys** using **replaceable coin batteries** shall carry the substance of the following warning on
 108 the packaging:

109 WARNING: Contains coin battery. Hazardous if swallowed – see instructions.

110 Alternatively, the packaging shall be marked with symbol ISO 7000-0790 and warning sign (yellow
 111 triangle) ISO 7010 W001 in conjunction with a supplementary sign containing a coin **battery** symbol IEC
 112 60417-6367. The combination sign is to meet the rules in ISO 3864-1. This sign shall be placed next to
 113 symbol ISO 7000-0790.

114 **Electric toys** using **replaceable coin batteries** shall carry the substance of the following warning in
 115 the instructions: