



SLOVENSKI STANDARD
SIST EN 62115:2005/A2:2011
01-oktober-2011

Električne igrače - Varnost - Dopolnilo A2

Electric toys - Safety

Elektrische Spielzeuge - Sicherheit

Jouets électriques - Sécurité

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Ta slovenski standard je istoveten z: EN 62115:2005/A2:2011

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ICS:

13.120	Varnost na domu	Domestic safety
97.200.50	Igrače	Toys

SIST EN 62115:2005/A2:2011 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62115/A2

July 2011

ICS 13.120; 97.200.50

English version

**Electric toys -
Safety**
(IEC 62115:2003/A2:2010, modified)

Jouets électriques -
Sécurité
(CEI 62115:2003/A2:2010, modifié)

Elektrische Spielzeuge -
Sicherheit
(IEC 62115:2003/A2:2010, modifiziert)

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This amendment A2 modifies the European Standard EN 62115:2005; it was approved by CENELEC on 2011-01-02. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 61/4051/FDIS, future edition 1 of IEC 62115:2003/A2:2010, prepared by IEC TC 61, Safety of household and similar electrical appliances, was submitted to the IEC-CENELEC parallel vote.

A draft amendment, prepared by the Technical Committee CENELEC TC 61, Safety of household and similar electrical appliances, was submitted to the formal vote.

The combined texts were approved by CENELEC as EN 62115:2005/A2:2011 on 2011-01-02.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-01-02
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2014-01-02

This amendment has been prepared under Mandate M/445 given to CENELEC by the European Commission and the European Free Trade Association to cover Essential Requirements of EC Directive 2009/48/EC. (see Annex ZZ).

NOTE 1 The following print types are used:

- requirements: in roman type;
- *test specifications*: in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

- p NOTE 2 In this document, p is used in the margin to indicate instructions for preparing the printed version.

Annexes ZA and ZZ have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62115:2003/A2:2010 was approved by CENELEC as a European Standard with agreed common modifications as given below.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61558-2-16 NOTE Harmonized as EN 61558-2-16.

COMMON MODIFICATIONS

2 Normative references

p **Delete** the replacement of ISO 8124-1.

p **Replace** EN 71 standards by the following:

EN 71-1, *Safety of toys – Part 1: Mechanical and physical properties*

EN 71-3, *Safety of toys – Part 3: Migration of certain elements*

Delete reference to IEC 60320-1.

3 Definitions

p **3.1.11 Replace** Note 1 by the following:

NOTE 1 **Computer toys** are **toys** that have play value either

- when not connected to a computer or screen such as steering wheels, video guns and toy keyboards; or
- when connected to a computer, console, monitor screen or other audio-video equipment.

5 General conditions for the tests

p **5.15 Replace** by:

5.15 Before starting the tests, the toy is preconditioned by subjecting it to the following tests of EN 71-1, the batteries in position:

- *Drop test – for toys having a mass less than 4,5 kg including batteries, irrespective of the age group;*
- *Static strength test – for sit-on or stand-on toys;*
- *Dynamic strength test – for wheeled ride-on toys;*
- *Tension test – for all toys; however, the force being 70 N ± 2 N independent of the dimensions and applicable independent of age group;*
- *Tension test for seams and materials – for toys having textile or other flexible materials covering batteries or other electrical parts.*

NOTE Compliance with EN 71-1 is not checked after the preconditioning. However, the security of the battery compartment cover is checked (see 14.6 and 14.7).

9 Heating and abnormal operations

9.2

p **Replace** the last sentence of the new paragraphs added by the following:

Toys with self-resetting thermal cut-outs are tested until steady conditions are established.

9.5

p **Replace** the first new paragraph added by the following:

If the control consists only of positive temperature co-efficient (PTC) resistors, negative temperature co-efficient (NTC) resistors or voltage dependent resistors (VDRs) they are not short-circuited if they are used within their manufacturers declared specification.

Annexes

Replace Annex ZA and Annex ZZ by the following.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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.

NOTE When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
–	–	Safety of toys Part 1: Mechanical and physical properties	EN 71-1	–
–	–	Safety of toys Part 3: Migration of certain elements	EN 71-3	–
IEC 60068-2-75	–	Environmental testing Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	–
IEC 60083	–	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	–	–
IEC 60086-2	–	Primary batteries Part 2: Physical and electrical specifications	EN 60086-2	2001
IEC 60335-1	2010	Household and similar electrical appliances - Safety Part 1: General requirements	EN 60335-1	– ¹⁾
IEC 60335-2-29 + A1 + A2	2002 2004 2009	Household and similar electrical appliances - Safety Part 2-29: Particular requirements for battery chargers	EN 60335-2-29 + A2	2004 2010
IEC 60384-14	–	Fixed capacitors for use in electronic equipment Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	–	–
IEC 60417-1	– ²⁾	Graphical symbols for use on equipment Part 1: Overview and application	–	–
IEC 60529 - + A1	1989 - 1999	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May + A1	1991 1993 2000
IEC 60695-2-11	–	Fire hazard testing Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	EN 60695-2-11	–

¹⁾ At draft stage.

²⁾ Superseded by IEC 60417 database.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60695-2-13	–	Fire hazard testing Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignitability test method for materials	EN 60695-2-13	–
IEC 60695-10-2	–	Fire hazard testing Part 10-2: Abnormal heat - Ball pressure test	EN 60695-10-2	–
IEC 60695-11-5	2004	Fire hazard testing Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005
IEC 60695-11-10	–	Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	–
IEC 60730-1 (mod)	2010	Automatic electrical controls for household and similar use Part 1: General requirements	EN 60730-1	– ¹⁾
IEC 60738-1	–	Thermistors - Directly heated positive step- function temperature coefficient Part 1: Generic specification	EN 60738-1	–
IEC 60825-1	1993	Safety of laser products	EN 60825-1	1994 ³⁾
-	-	Part 1: Equipment classification, requirements and user's guide	-	-
+ A1	1997		+ corr. Feb. + A1	1995 2002
+ A2	2001		+ A2 + corr. Apr.	2001 2004
IEC 60990	1999	Methods of measurement of touch current and protective conductor current	EN 60990	1999
IEC 61032	1997	Protection of persons and equipment by enclosures - Probes for verification	EN 61032	1998
IEC 61058-1 (mod)	2000	Switches for appliances		
+ A1	2001	Part 1: General requirements	EN 61058-1	2002
+ A2	2007		+ A2	2008
IEC 61558-2-7	–	Safety of power transformers, power supply units and similar Part 2-7: Particular requirements for transformers for toys	EN 61558-2-7	–
ISO 7000	–	Graphical symbols for use on equipment - Index and synopsis	–	–
ISO 9772	–	Cellular plastics - Determination of horizontal burning characteristics of small specimens subjected to a small flame	–	–

³⁾ EN 60825-1:1993 and its amendments are superseded by EN 60825-1:2007, which is based on IEC 60825-1:2007 and by EN 62471:2008, which is based on IEC 62471:2006. However, for LEDs in toys a product standard based on ICNIRP Recommendation is in preparation and therefore EN 60825-1:1993 and its amendments will have to be used until this standard for LEDs in toys is implemented.

Annex ZZ
(informative)

Clauses of this European Standard addressing essential requirements or other provisions of EU Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association to provide a means of conforming to the Essential Requirements of New Approach Directive 2009/48/EC with respect to the electrical safety of electrical toys; specifically, to Annex II, Section IV 'Electrical properties' with the exception of toys for connection to a computer, console, monitor screen or other audio-video equipment (point 2) and toys of such a construction that the requirements for Functional Safety are necessary (point 7).

Once this European Standard is cited in the Official Journal of the European Union under that Directive, compliance with this standard confers, within the limits of the scope of this European Standard, a presumption of conformity with the corresponding Essential Requirements of that Directive and associated EFTA regulations.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

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