

TÜV Rheinland LGA Products – Information

March 2021

EN IEC 62115:2020: New version of safety standard for electrical toys

On 21 March 2020, the European Committee for Standardization CEN published <u>EN IEC</u> 62115:2020 as a new version of the standard "Electric toys - Safety". It applies to toys which have at least **one function dependent on electricity** (for example, song books with a sound function, remote-controlled cars, toy computers and electrical experimental sets).

EN IEC 62115:2020 will replace EN 62115:2005 and all of its amendments and corrigenda. This includes the following documents:

- EN 62115:2005
- EN 62115:2005/A11:2012
- EN 62115:2005/A11:2012/AC:2013
- EN 62115:2005/A12:2015
- EN 62115:2005/A2:2011
- EN 62115:2005/A2:2011/AC:2011

Significant changes have been made in the following sections:

5.2 Preconditioning

Drop test has been increased to 93 cm ± 5 cm, regardless of age group.

7.2.3 Transformer Toys and Power Supply Toys

Electric toys which are intended to charge rechargeable batteries by a power supply for toys, must be marked with the symbols and type designation of the power supply or be marked correspondingly as follows:

"Use only with <model designation> <power supply>."



or

7.3.3 Electric Toys that are used with replaceable Batteries

Additional user instructions in the operating manual – above all for coin batteries and button batteries.

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7.5 Instructions for ride-on electric Toys

Additional warning notes for electric ride-on toys according to EN 71-1:2014+A1:2018, point 7.10.3.

9.8 Abnormal Supply via a USB Connection

For toys powered via a USB connection, the test shall be repeated according to point 9.3., whereas the toy is powered by a voltage of 42 V.

12 Mechanical Strength

The mechanical test (spring hammer test) on the enclosure (battery cover), handles, levers, knobs and has been reduced to 3 impacts of 0.5J each.

13.4.1 Small Batteries

Batteries which fit completely into the small parts cylinder acc. to EN 71-1:2014+A1:2018, point 8.2 shall not be removable without the aid of a tool. Therefore, AAA/LR03 - batteries are covered by this regulation now.

13.4.4 Electric Toys placed above a Child

Electric toys powered by batteries, where the battery compartment is placed above a child, (e.g. music boxes), shall be tested for leaks from a volume of 100 mm³.

13.4.6. Battery Compartment Fasteners

A screw of a battery compartment must not come loose at a force of 20 N (must be captive).

13.10 Speed Limitation of ride-on electric Toys

The values of the maximum speed of electric ride-on toys for children under 3 years and over 3 years of age are laid down in EN 71-1: 2014 + A1: 2018, point 5.6 resp. 4.15.1.8.

15.5 Batteries

Batteries included with electric toys shall comply with the following standards:

- IEC 60086 for primary batteries
- IEC 62133 for secondary batteries (rechargeable batteries)

Approval by certificates or by a partial test of the above-mentioned standards.

16.1 Fixings

Screws and nuts <2.8 mm nominal diameter (external thread diameter) must withstand torque tests, if they are used for electrical connections or are likely to be tightened by the user.

19.2 Optical Radiation

Electric toys incorporating lasers and/or light emitting diodes (LED) shall comply with Annex E (a new test procedure for LEDs has been introduced.)

Annex A - 7.3.4 Experimental Sets

Experimental sets shall be marked by a warning, which in addition to the appropriate age of the users, also indicates the reasons for this age restriction and refers to instructions for care givers.

Timeline for implementation

EN IEC 62115:2020 should be given the status of a national standard at the latest by 21 August 2020, and conflicting national standards shall be withdrawn at the latest by 21 February 2022. The German version DIN EN IEC 62115 (VDE 0700-210):2021-04 will be published in April 2021. The start of application of this standard is 01 April 2021, the transition period for the previously valid version DIN EN 62115 (VDE 0700-210):2016-06 runs until 02 December 2021.

With the next issue of the Official Journal of the European Union (OJEU), the citation of EN IEC 62115:2020 is expected. This will make it mandatory for presumption of conformity with the Toy Safety Directive 2009/48/EC (harmonization of the standard). After the end of the transitional period (probably on 02 December 2021), only the new version will be valid as the legal basis.

Further technical information:

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