



**BUREAU
VERITAS**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

TEST REPORT NUMBER : 32233110073

BUREAU VERITAS TESTING TECHNICAL SERVICE (ZHEJIANG) CO., LTD
1F WEST, 6F EAST, 7F EAST, 8F, BUILDING B, No.66, QINGYI ROAD, NINGBO, ZHEJIANG, CHINA



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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant tests conforms to a specification (only telecommunication products).

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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Date: November 24, 2023

1.2 Tester

Tested by:

November 24, 2023

Martin Mao

Date

Name

Signature

Reviewed by:

November 24, 2023

Jesse Huang

Date

Name

Signature

Approved by:

November 24, 2023

Lei Zhang

Date

Name

Signature





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1.3 Testing laboratory

1.3.1 Location

Bureau Veritas Testing Technical Service (Zhejiang) Co., Ltd.

Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China

Tel: 86-574-87091333,

Fax: 86-574-87971038

1.3.2 Test location, where different from BV ZheJiang:

Name: ./.
Street: ./.
Town: ./.
Country: ./.
Telephone: ./.
Fax: ./.
Teletex: ./.

1.4 Application details

1.4.1 Details of applicant

Name : CHIZHOU KUAILEDATA TOYS CO.,LTD
Street : MATANG INDUSTRY ZONE, DING QIAO TOWN,
QINGYANG,
Town : CHIZHOU CITY, ANHUI PROVINCE
Country : China
E-mail : 845352935@qq.com
Fax : /

Contact : Steve Chen
Telephone : /



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1.4.2 Details of Manufacturer

Name : CHIZHOU KUAILEDATA TOYS CO.,LTD
Street : MATANG INDUSTRY ZONE, DING QIAO TOWN,
QINGYANG,
Town : CHIZHOU CITY, ANHUI PROVINCE
Country : China
E-mail : 845352935@qq.com
Fax : /

Contact : Steve Chen
Telephone : /

1.4.3 Details of Factory

Name : CHIZHOU KUAILEDATA TOYS CO.,LTD
Street : MATANG INDUSTRY ZONE, DING QIAO TOWN,
QINGYANG,
Town : CHIZHOU CITY, ANHUI PROVINCE
Country : China

1.4.4 Details of Buyer

Name : /

1.4.5 Dates of application

Date of receipt of application : November 08, 2023

Date of receipt of test item : November 08, 2023

Date of test : November 08, 2023---November 24 , 2023



1.5 Test item Description

1.5.1 Description of test item

Type of product : Electric toys

Model/Type reference : KL-006

Serial number : ---

1.5.2 Test item particulars

Test item.....	: Ride on car
Trade Mark.....	: ---
Manufacture.....	: ---
Classification.....	: <input checked="" type="checkbox"/> Battery Toy; <input type="checkbox"/> Transformer toys and power supply toys
Rated Voltage(Range).....	: 2XDC12V Lead-acid Rechargeable battery
Rated Power Input	: ---
Rated Current.....	: Max 2,3A
Detachable Lamps	: <input type="checkbox"/> Max...W; <input checked="" type="checkbox"/> None
Radiation	: <input type="checkbox"/> Lasers; <input checked="" type="checkbox"/> Lighting-emitting diodes; <input type="checkbox"/> None
Instructions language.....	: <input checked="" type="checkbox"/> English; <input type="checkbox"/> French; <input type="checkbox"/> Other:

(all informations was provided by the applicant or detected at the sample)
Please see also attachment

1.6 Test standards

BS EN IEC 62115:2020+A11:2020 Electric toys – Safety (IEC 62115: 2017)



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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



2.2 Test environment

Temperature:	15 ... 25 °C
Relative humidity content:	20 ... 75 %
Air pressure:	860 ... 1030 hPa
Details of power supply:	2XDC12V Lead-acid Rechargeable battery
Other parameters:	---



2.3 Conformity verification - Summary of inspection

Clause	Summary of inspection	Test result		
		N.A.	Pass	Fail
5	General conditions for the tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Criteria for reduced testing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Marking and instructions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Power input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Heating and abnormal operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	Electric strength	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Mechanical strength	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	Protection of cords and wires	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	Components	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	Screws and connections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Clearances and creepage distances	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18	Resistance to heat and fire	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19	Radiation and similar hazards	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Annexes		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Test case verdicts

N.A.: Test case does not apply to the test object

Pass: Test item does meet the requirement

Fail: Test item does not meet the requirement

---: The product was damaged in the experiment and could not be further tested



3 Test results basic standard(s)

3.1 Particulars: test item vs. Test requirements

EN IEC 62115:2020+A11:2020 Electric toys – Safety	
Possible test case verdicts:	
- test case does not apply to the test object..... :	N(N/A)
- test object does meet the requirement..... :	P(Pass)
- test object does not meet the requirement..... :	F(Fail)
Test specification:	
Standard..... :	<input checked="" type="checkbox"/> BS EN IEC 62115:2020+A11:2020 <input type="checkbox"/> IEC 62115: 2017
Test procedure..... :	Type approval.
Non-standard test method..... :	N/A
Test Report Form No :	EN IEC 62115A
Test Report Form(s) Originator..... :	Bureau Veritas Testing Technical Service (Zhejiang) Co.,Ltd
Master TRF..... :	Dated March 2021
Copyright blank test report	Bureau Veritas Testing Technical Service (Zhejiang) Co.,Ltd



General remarks:

“(see remark #)” refers to a remark appended to the report.

“(see appended table)” refers to a table appended to the report.

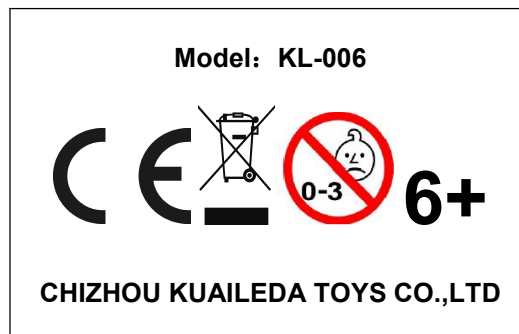
Throughout this report a comma is used as the decimal separator.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced except in full without the written approval of the testing laboratory.

Copy of marking plate:

For reference only.





3.2 General requirements and results

BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
5	General conditions for the tests		—
	Tests performed according to cl. 5.	6+	P
6	Criteria for reduced testing		—
6.1	General	Test all clauses	N
6.2	Short-circuit resistance		N
6.3	Low power electric toys		N
6.4	Battery circuits		N
7	Marking and instructions		—
7.1	General		P
7.2	Markings on electric toys		P
7.2.1	Identification		P
	— The manufacturer ' s name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. Of any importer.		P
	— Manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.		P
	— Manufacturers and importers shall ensure that the toy is accompanied by instructions and safety information in a language or languages easily understood by consumers, as determined by the Member State concerned.		P
	— A Member State may, within its territory, stipulate that warnings and safety instructions shall be written in a language or languages easily understood by consumers, as determined by that Member State.		P
7.2.2	Electric toys with replaceable batteries		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	Electric toys with replaceable batteries shall be marked with the nominal battery voltage, in or on the battery compartment or other suitable place on the electric toy, close to the batteries.		N
	Electric toys with a battery box shall be marked with the symbol for DC		N
	The electric toy shall be marked with the shape of the batteries, together with the nominal voltage and polarity.		N
7.2.3	Transformer toys and power supply toys		N
	Electric toys supplied by a transformer or a power supply shall be marked with		N
	– their rated voltage, in volts;		N
	– the symbol for alternating current (AC) (symbol IEC 60417-5032 (2002-10)) or direct current (DC) (symbol IEC 60417-5031 (2002-10)), as applicable;		N
	– their rated power input, in watts or volt-amperes, if the power input is greater than 25 W or 25 VA		N
	– the symbol for safety isolating transformer for toys (symbol IEC 60417-5219 (2006-12)). This symbol shall also be marked on the packaging		N
	The marking of rated voltage and the symbol for AC or DC shall be placed adjacent to the power input connection of the electric toy so that it is visible.		N
	Electric toys intended to be supplied from a power supply for the purposes of recharging the battery shall be marked with symbol		N
7.2.4	Electric toys with more than one power supply		N
	Electric toys that are supplied by both batteries and a transformer or a power supply shall be marked in accordance with both 7.2.2 and 7.2.3.		N
7.2.5	Electric toys with detachable lamps		N
	The identification for detachable lamps shall be marked with		N
	- the rated voltage and type number, or	No detachable lamps	N
	- the maximum rated power input, or		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	- the maximum rated current.		N
7.2.6	Symbols		P
7.2.7	Durability		P
	The markings on an electric toy shall be legible and durable.		P
	Compliance is checked by inspection and by rubbing the marking by hand for 15 s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with petroleum spirit. The petroleum spirit to be used for the test is aliphatic solvent hexane.		P
	After the tests of this standard, the marking shall be legible, it shall not be easily possible to remove marking plates and they shall show no curling.		P
7.3	Instructions and markings on packaging		P
7.3.1	General		P
	Instructions shall be provided that give details concerning cleaning and maintenance when necessary for the safe use and operation of the electric toy.		P
	Instructions for use shall be provided with the appliance so that the electric toy can be played with safely.		P
	Electric toys shall be provided with instructions for assembly if:		P
	– they are intended to be assembled by a child;		N
	– these instructions are necessary for safe operation of the electric toy.		N
	If the electric toy is intended to be assembled by an adult, this shall be stated.		P
	The instructions may be on a leaflet, on the packaging or on the electric toy. If the instructions are marked on the electric toy, they shall be visible from the outside and if the electric toy consists of more than one part, only the main part needs to be marked.		P
	Instructions for electric toys intended to be used in water shall state that the electric toy is to be operated in water only when fully assembled in accordance with the instructions, if applicable.		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	If markings or instructions stated in 7.2 are on the packaging only, they shall be accompanied by a statement indicating that packaging must be retained since it contains important information. If markings or instructions stated in 7.2 are on instruction sheet only, they shall be accompanied by a statement indicating that instruction sheet must be retained since it contains important information. If part of markings or instructions stated in 7.2 are on packaging and others are in instruction sheet, a statement indicates that instruction sheet and packaging must be retained since it contains important information		P
	Service parts and accessories with no electrical function or play value on their own do not need to have the markings and instructions stated in 7.2.		P
7.3.2	Transformer toys and power supply toys		N
	The instructions for electric toys using a transformer or a power supply or a battery charger shall state that the transformer, power supply or battery charger used with the electric toy shall be regularly examined for damage to the supply cord, plug, enclosure or other parts, and in the event of damage, it shall not be used until the damage has been repaired.		N
	For electric toys using a transformer or a power supply, the following age warning shall be visible to consumers at the time of purchase: WARNING: Not suitable for children under 3 years		N
	The instructions for electric toys using a transformers or a power supply shall state that the toy is not to be connected to more than the recommended number of transformers or power supplies where such connection is possible without the aid of tool or breaking the toy.		N
	The instructions for electric toys using a transformers or a power supply shall contain the substance of the following, as applicable:		N
	– the toy shall only be used with a transformer for toys or a power supply for toys (as applicable)		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	– the toy shall be used with the transformer or power supply supplied, if the transformer is supplied with the toy;		N
	– the model number or specification of a suitable transformer or power supply for use with the toy, if not supplied with the toy;		N
	– the transformer or power supply (as applicable) is not a toy;		N
	– toys liable to be cleaned with liquids are to be disconnected from the transformer or power supply before cleaning		N
7.3.3	Electric toys that are used with replaceable batteries		---
7.3.3.1	General		---
	The instructions for electric toys that are used with replaceable batteries shall contain the substance of the following, as applicable:		N
	The instructions for electric toys supplied by a battery box shall state that the toy is not to be connected to more than the recommended number of power supplies. The instruction need not be added if the connections cannot be made easily without the aid of a tool and using parts from two identical electric toys or constructional sets.		N
	The instructions for electric toys containing non-replaceable batteries shall state the substance of the following: This toy contains batteries that are non-replaceable.	Lead-acid rechargeable battery	P
	The instructions for electric toys intending to be supplied from a detachable power supply for the purposes of recharging the battery, the type reference of the detachable power supply shall be stated along with the substance of the following: WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this toy.		N
7.3.3.2	Coin batteries		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	Electric toys using replaceable coin batteries shall carry the substance of the following warning on the packaging: WARNING: Contains coin battery. Hazardous if swallowed – see instructions.		N
	Electric toys using replaceable coin batteries shall carry the substance of the following warning in the instructions WARNING: This product contains a coin battery. A coin battery can cause serious internal chemical burns if swallowed		N
	Electric toys using replaceable coin batteries shall carry the substance of the following warning in the instructions: WARNING: Dispose of used batteries immediately. Keep new and used batteries away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.		N
7.3.3.3	Button batteries		N
	Electric toys using replaceable button batteries shall carry the substance of the following warning in the instructions: WARNING: Dispose of used batteries immediately. Keep new and used batteries away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention		N
7.4	Instructions for electric toys that can be connected to class I equipment		N
	For electric toys that can be connected to class I equipment which do not meet the requirement of 13.9, the instructions shall state the substance of the following: This toy is only to be connected to equipment bearing either of the following symbols:		N
7.5	Instructions for ride-on electric toys		P
	NOTE See EN 71-1:2014+A1:2018 for requirement for electric ride-on toys.		P
7.6	Temperature warnings		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	The accessible parts of electric toys that are intended for children 3 years and over but less than 8 years which exceed the temperature rise limit for children less than 3 years according to Table 1 (see 9.10) shall carry the following warning that shall be visible to consumers at the time of purchase: WARNING: Not suitable for children under 3 years		N
	The accessible parts of electric toys that are intended for children 8 years and over, and which exceed the temperature rise limit for children 3 years to less than 8 years according to Table 1 (see 9.10) shall carry the following warning that shall be visible to consumers at the time of purchase: WARNING: Not suitable for children under 8 years		N
8	Power input		—
	The power consumed by electric toys supplied by a transformer or a power supply shall not exceed the rated power input by more than 20 %, where a power input is marked.		N
	Compliance is checked by measurement when the power input has stabilized and the electric toy has attained normal operating temperature with		N
	– all circuits that can operate simultaneously being in operation;		N
	– the electric toy being supplied at rated voltage;		N
	– the electric toy being operated under normal operation;		N
9	Heating and abnormal operation		—
9.1	General		P
	Electric toys shall not attain excessive temperatures in use and shall not malfunction in such a way as to cause any unintended operation that may impair safety.		P
	Electric toys using transformers, power supplies and electric toys using battery boxes are also subjected to the test of 9.7.		N
9.2	Testing condition		P
9.2.1	Testing position		P
	Electric toys are placed in the most unfavourable position that can occur during play.		P



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	Hand-held electric toys are freely suspended.		N
	Electric toys which can move around a room or space, either powered by themselves or by a user, shall be tested in whichever normal operation use condition will create the highest temperature rise.		P
	Other electric toys are placed on the floor of a test corner as near to the walls as possible or away from the walls, whichever is more unfavourable. The test corner consists of two walls at right angles and a floor made of dull black-painted plywood having a thickness of approximately 20 mm. They are covered with four layers of bleached cotton gauze each having dimensions of 500 mm × 500 mm and a specific mass of 40 g/m ² ± 8 g/m ² . The gauze is placed on surfaces where high temperatures and charring may be expected. Electric		N
9.2.2	Power supply		N
	Electric toys using transformers and power supplies are supplied at 0,94 times or 1,06 times rated voltage, whichever is more unfavourable		N
9.2.3	Measurement		P
	The temperature rises are determined by means of fine-wire thermocouples positioned so that they have minimum effect on the temperature of the part under test. Where thermocouples cannot successfully measure the maximum temperature during the test, thermal paper or other methods to measure temperature rise may be used.		P
9.2.4	Test conditions		P
	The tests are continued until steady conditions are established. When non-self-resetting thermal cut-outs operate during the tests, they are reset a maximum of three times		P
	Electric toys that are used with rechargeable batteries and that can operate during recharging of the battery are also tested in the charging mode.	also tested in the charging mode	P
9.3	Normal operation		P
	Electric toys are operated under normal operation and the temperature rises of the various		P



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	parts are determined.		
9.4	Normal operation with insulation short-circuited		P
9.4.1	General		P
	The test of 9.3 is repeated, the insulation between parts of different polarity being shortcircuited in turn using the method of 9.4.2 and 9.4.3.		P
	The short circuit is not applied to:		—
	-lamps and lamp holders,		P
	-battery compartments, complying with 13.4,		P
	– other parts where access is only possible by removing covers that can only be removed with the aid of a tool or by two independent movements applied simultaneously.		N
9.4.2	Steel pin test		P
	The short-circuit is applied by a straight steel pin having a diameter of 0,5 mm and any suitable length between 25 mm and 100 mm to all accessible parts.		P
9.4.3	Steel rod test		P
	The short-circuit is applied by a rod having a diameter of 1,0 mm inserted through holes in the enclosure up to a depth of 100 mm. The rod is hand guided and applied only with sufficient force to hold it in position.		P
9.5	Abnormal operation with temperature controls made inoperable		N
	The test of 9.3 is repeated with any device limiting the temperature during the tests of 9.3 being disabled. If the electric toy has more than one control, they are disabled in turn. The controls may be disabled by short-circuiting or any other suitable means of ensuring they have no effect on the control of temperature.		N
	Control devices consisting only of positive temperature coefficient (PTC) resistors, negative temperature coefficient (NTC) resistors or voltage depending resistors (VDRs) used within their manufacturers declared specification are exempt from this test		N
9.6	Electric toys with accessible moving parts locked		P



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	The test of 9.3 is repeated with accessible moving parts locked.		P
9.7	Additional transformers and power supplies		N
	Electric toys using transformers, power supplies and electric toys with battery boxes are connected to an extra transformer, power supply or battery box in addition to that recommended in the instructions for use. The additional transformer, power supply or battery box is identical to that recommended for the electric toy and is connected in series or in parallel, whichever is more unfavourable. The electric toy is then tested as specified in 9.3 and 9.4.		N
9.8	Abnormal supply to electric toys via a USB connection		N
	For electric toys supplied with power from a USB connection, the test of 9.3 is repeated with the toy being supplied with a voltage of 42 V.		N
9.9	Fault condition in electronic circuits		P
	The fault conditions a) to f) are not applied to circuits or parts of circuits where both of the following conditions are met:		P
	– the electronic circuit is a low-power circuit as described below;		N
	– the protection against fire hazard or dangerous malfunction in other		N
	The following fault conditions are considered and, if necessary, applied one at a time, consequential faults being taken into consideration:		P
	a) short-circuit of clearances and creepage distances between parts of different polarity, if these distances are less than the values specified in Clause 17, unless the relevant part is adequately encapsulated;		N
	b) open circuit at the terminals of any component		P
	c) short circuit of capacitors, unless they comply with IEC 60384-14; or they are ceramic capacitors used within the manufacturer's specification;		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	d) short-circuit of any two terminals of an electronic component, other than integrated circuits;		P
	e) failure of triacs in the diode mode		P
	f) failure of microprocessors and integrated circuits except components such as thyristors and triacs. All possible output signals are considered for faults occurring within the component. If it can be shown that a particular output signal is unlikely to occur, then the relevant fault is not considered.		P
	For simulation of the fault conditions, the toy is operated under the conditions specified in 9.2 but supplied at rated voltage. For products that have to be kept switched on by hand or foot, if the applied fault-condition results in the product not functioning, the switch is released after 30 s.		P
9.10	Compliance criteria		P
	The temperature rise of accessible parts of the electric toy including handles and knobs shall not exceed the values specified in Table 1.		P
	During the test of 9.8, the temperature rise of accessible parts of the electric toy shall not exceed 1,5 times the values specified in Table 1.		N
	The temperature rise of parts behind detachable parts that require a tool for removal is not measured.		P
	Where batteries are inside a battery compartment with a cover, which can only be opened by the use of a tool or by at least two independent movements applied simultaneously, shall not exceed 45 K.		P
	During the tests, – sealing compound shall not flow out;		P
	– vapour shall not accumulate in the electric toy;		P
	– dangerous substances shall not be produced, such as poisonous or ignitable gas in hazardous amounts;		P
	– enclosures shall not deform to such an extent that compliance with this International		P



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	Standard is impaired;		
	– batteries shall not leak fluids or erupt;;		P
	– materials, including the cotton gauze, shall not char;		P
	– the electric toy shall not emit flames or molten metal.		P
	After the tests, the toy shall not be damaged to such an extent that compliance with this standard is impaired		P
10	Electric strength		—
10.1	Electric strength at operating temperature		P
	The electrical insulation of the electric toy at operating temperature shall be adequate.		P
10.2	Electric strength under humid conditions		P
	The electrical insulation of the electric toy under humid conditions shall be adequate.		P
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid		—
	Electric toys intended to be used in water, electric toys used with liquid and filled from a tap and electric toys likely to be cleaned with liquid shall have an enclosure providing the appropriate protection.	Not intended to be used in water(no IP marking)	N
12	Mechanical strength		—
12.1	Enclosures	three blows, 0,5J	P
12.2	Attachment strength		N
13	Construction		—
13.1	Nominal supply voltage	DC 24V	P
13.2	Transformers, power supplies and battery chargers	battery charger	P
13.2.1	Mains connections		N
13.2.2	Electric toys for use in water or for use with liquids		N
13.2.3	Electric toys for children under the age of 3 years		N
13.3	Thermal cut-outs		N
13.4	Batteries		P



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
13.4.1	Small batteries		N
13.4.2	Other batteries		P
13.4.3	Electrolyte leakage		N
13.4.4	Electric toys placed above a child		N
13.4.5	Parallel connection of batteries		N
13.4.6	Battery compartment fasteners		P
13.5	Plug and sockets		N
	Plugs and socket-outlets of electric toys shall not be interchangeable with plugs and socket outlets listed in IEC TR 60083.		N
13.6	Charging batteries		P
	It shall be possible to charge secondary batteries inside the electric toy only if the following conditions are met		P
	- connection to, or replacement with primary batteries shall not be possible;		P
	- charging of other batteries or electric toys from the electric toy shall not be possible;		P
	- connection of an incorrect polarity shall not be possible by constructions;		P
	- the power supply shall comply with 15.3;		P
	- operation of the electric toy while charging shall not be possible unless the electric toy meets the requirements for electric toys using a transformer or a power supply and the transformer or power supply complies with 15.3;		P
	- electric toys for children under 3 years cannot operate while being charged.	6+	N
13.7	Series motors		N
	Electric toys shall not incorporate series motors having a power input exceeding 20 W.		N
13.8	Working voltage		P
	Internal parts of an electric toy having a working voltage exceeding 24 V shall not lead to any risk of harmful electric shock.		P
13.9	Electric toys connecting to other equipment		P
	Electric toys that can connect to class I equipment shall be safe when connected to that equipment in case of a fault in the equipment that the electric toy is connected to.		N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
13.10	Speed limitation of ride-on electric toys		P
	The maximum speed of electric ride-on toys for children under 3 years shall not exceed the limits in 5.6 of EN 71-1:2014+A1:2018. The maximum speed of electric ride-on toys shall not exceed the limits in 4.15.1.8 of EN 71-1:2014+A1:2018 for toys intended for children of 3 years and over.		P
14	Protection of cords and wires		—
14.1	Edges and moving parts		P
14.2	Fixed parts		P
15	Components		—
15.1	General		P
15.1.2	Switches and automatic controls		P
15.1.3	Other components		P
15.2	Prohibited components		P
15.3	Transformers and power supplies		P
15.4	Battery chargers		P
15.5	Batteries		P
16	Screws and connections		—
16.1	Fixings		P
16.2	Connections		N
17	Clearances and creepage distances		—
	Clearances and creepage distances of functional insulation shall not be less than 0,5 mm except when the electric toy meets the requirements of Clause 9 with this distance short-circuited.		P
	may be reduced to 0,2 mm provided that the degree of pollution in the microenvironment in which the insulation is located is unlikely to exceed pollution degree 2 during normal use of the electric toy.		N
18	Resistance to heat and fire		—
18.1	Resistance to heat		N
	External parts of non-metallic material enclosing	<3A	N



BS EN IEC 62115			
Clause	Requirement – Test	Result – Remark	Verdict
	electric parts, and parts of insulating material supporting electric parts, shall be sufficiently resistant to heat if the electric toy has a working voltage exceeding 12 V and a current exceeding 3 A.		
18.2	Resistance to fire		P
18.2.1	General		P
	Parts of non-metallic material enclosing electric parts, and parts of insulating material supporting electric parts, shall be resistant to ignition and spread of fire.		P
18.2.2	Non-metallic parts		P
	Parts of non-metallic material are subjected to the glow-wire test of IEC 60695-2-11, which is carried out at 550 °C.	550 °C	P
18.2.3	Insulating material		N
	Parts of insulating material supporting connections carrying a current exceeding 3A and having a working voltage exceeding 12 V, and parts of insulating material within a distance of 3 mm of such connections, are subjected to the Parts that withstand the glow-wire test of IEC 60695-2-11,		N
	The needle-flame test is not carried out on parts of material classified as V-0 or V-1 according to IEC 60695-11-10		N
19	Radiation and similar hazards		—
19.1	General		P
	Electric toys shall not emit harmful optical radiation or harmful electromagnetic radiation due to their operation in normal use.		P
19.2	Optical radiation		P
	Electric toys incorporating lasers and or light emitting diodes (LED) or UV emitting lamps shall comply with Annex E.	LED	P
19.3	Other electromagnetic radiation		P
	Measurements methods for electric toys with an integrated field source that may produce harmful electromagnetic radiation are given in Annex I.		P



3.3 Annex as stated in the standards

EN IEC 62115			
Clause	Requirement - Test	Result	Verdict
A	ANNEX A, Experimental sets		—
(5.3)	The tests are carried out with the experiments described in the instructions that result in the most unfavourable condition.		N
(7.3.4)	The following warning shall be indicated on the packaging: WARNING: This toy is only intended for use by children over the age of X years (where X must be a minimum of 8)		N
(9.10)	The temperature rise of surfaces, other than those of handles, knobs, buttons and similar parts can exceed the limits if an appropriate warning is given in the instructions.		N
(13.1)	The current shall not exceed 5 A and the power input shall not exceed 50 VA. However these values may be exceeded during a period not exceeding 10 s.		N
B	ANNEX B, Need-flame test		—
	The needle-flame test is carried out in accordance with IEC 60695-11-5 with the following modifications.		N
(7)	The duration of application of the test flame is 30 s ± 1 s.		N
(9.1)	the flame can be applied to a vertical or horizontal edge.		N
(9.2)	If possible, the flame is applied at least 10 mm from a corner		N
(9.3)	The test is carried out on one specimen. If the specimen does not withstand the test, the test may be repeated on two additional specimens, both of which shall then withstand the test		N
(11)	The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, the duration of burning shall not exceed 15 s.		N
C	ANNEX C, Automatic controls and switches		—
(C.1)	Automatic controls		N



EN IEC 62115			
Clause	Requirement - Test	Result	Verdict
	Automatic controls with the toy shall comply with this standard and with clauses 11.3.5 to 11.3.8 and Clause 17 of IEC 60730-1 as type 1 controls.		N
	the number of cycles of operation are – thermostats 3 000 – self-resetting thermal cut-outs 300 – non-self-resetting thermal cut-outs 10		N
(C.2)	Switches		P
	Mechanical switches that are tested with the electric toy shall comply with this standard and with the following clauses of IEC 61058-1-1, as modified below.	Mechanical switch	P
	Electronic switches that are tested with the electric toy shall comply with this standard and with the following clauses of IEC 61058-1-2, as modified below		N
	The tests of IEC 61058-1-1 and IEC 61058-1-2 are carried out under the conditions occurring in the electric toy.		N
	Before being tested, switches are operated 20 times without load.		P
(12)	Construction		P
	Switches are not required to be marked. However, a switch that can be tested separately from the appliance shall be marked with the manufacturer's name or trade mark and the type reference.		P

D	ANNEX D, Electric toys with protective electronic circuits		—
D.1	General		N
	If during the tests of 9.9 an electronic circuit prevents the hazardous conditions listed in 9.10 or dangerous malfunction, it shall additionally comply with the following requirements. In this case, the electronic circuit is considered as a protective electronic circuit.		N
D.2	Dangerous malfunction		N
D.2.1	General		N



EN IEC 62115			
Clause	Requirement - Test	Result	Verdict
	The electric toy shall not malfunction in such a way as to cause an unintended operation that may impair safety or present a dangerous malfunction due to influence from electromagnetic phenomena (EMP).		N
	Compliance is checked by the test of D.2.2 and D.2.3		N
D.2.2	Electrostatic discharge		N
D.2.3	Radiated fields		N
D.2.4	Transient bursts		N
D.2.5	Voltage surges		N
D.2.6	Injected current		N
D.2.7	Voltage dips and interruptions		N
D.2.8	Mains signals		N

E	ANNEX E, Safety of electric toys incorporating optical radiation sources		—
5	General conditions for tests		P
5.2	The tests of 19.E.2, 19.E.3 and 19.E.4 may be carried out on separate electric toys.		P
5.3	The tests of 19.E.2, 19.E.3 and 19.E.4 are carried out before or after the preconditioning tests specified in 5.2, whichever is more unfavourable.		P
5.6	The tests of 19.E.2, 19.E.3 and 19.E.4 are carried out using the worst case emission taking the electric toy's function into account.		P
15	Components		P
15.2 Addition:	Electric toys for children under the age of 3 years shall not incorporate lasers.	6+	N
19	Radiation, toxicity and similar hazards		P
19.2 Addition:	Electric toys shall not present a radiation hazard.		P
	Electric toys incorporating LEDs shall comply with 19.E.2.	toys incorporating LEDs	P
	Electric toys incorporating lasers shall comply with 19.E.3.		N
	Electric toys incorporating UV-emitting lamps shall comply with 19.E.4.		N
	All electric toys incorporating optical radiation sources shall comply with 19.E.5.		P



F	ANNEX F, Flowcharts showing the assessment of optical radiation safety of LEDs in electric toys	—
	Figures F.1 to F.5 present a series of flowcharts to assist in the assessment of optical radiation safety of LEDs in electric toys.	N

G	ANNEX G, Examples of calculations on LEDs	—
G.1	Green LED	N
G.2	Narrow angle blue LED	N
G.3	UVA LED	N
G.4	UVA LED	N
G.5	IR LED	N
G.6	3x3 cluster of red LEDs	N
G.7	LED array 1	N
G.8	LED array 2	N

H	ANNEX H, Explanation of the principles used for the requirements of Annex E	—
H.1	Background	N
H.2	Hazards.	N
H.3	Exposure scenarios	N
H.4	Accessible emission limits (AEL)	N
H.4.1	UVA AEL	N
H.4.2	UVB and UVC AEL	N
H.5	Visible light AELs	N
H.5.1	General	N
H.5.2	Blue light AEL	N
H.5.3	Thermal AEL	N
H.6	Thermal hazards from infrared emission	N
H.7	Arrays or groups of LEDs	N
H.8	Modulated sources	N

I	ANNEX I, Electric toys generating electromagnetic fields (EMF)	—
A.1	General	—



	Measurements are not necessary for electric toy.		P												
	-without a motor or inductor;		N												
	-which only include passive electronic components; or;		N												
	-having an input current not exceeding 3A.	<3A	P												
A.2.3	Measuring distance and sensor location		N												
	Add the following to Table A.1 before the row for "Tumble dryers": <table border="1" data-bbox="438 696 987 804"> <tr> <td>Electric toys or parts of electric toys, intended to be used close to the body</td> <td>0</td> <td>All surfaces</td> <td>Continuously</td> </tr> <tr> <td>Electric toys or parts of electric toys, hand-held</td> <td>15</td> <td>All surfaces</td> <td>Continuously</td> </tr> <tr> <td>Electric toys or parts of electric toys, other</td> <td>30</td> <td>All surfaces</td> <td>Continuously</td> </tr> </table>	Electric toys or parts of electric toys, intended to be used close to the body	0	All surfaces	Continuously	Electric toys or parts of electric toys, hand-held	15	All surfaces	Continuously	Electric toys or parts of electric toys, other	30	All surfaces	Continuously		N
Electric toys or parts of electric toys, intended to be used close to the body	0	All surfaces	Continuously												
Electric toys or parts of electric toys, hand-held	15	All surfaces	Continuously												
Electric toys or parts of electric toys, other	30	All surfaces	Continuously												

J	ANNEX J, Safety of remote-controls for electric ride-on toys		—
1	Scope		N
3	Terms and definitions		N
3.J.1.1	uncontrolled mode		N
3.J.1.2	controlled mode		N
3.J.1.3	wireless signal		N
3.J.5.1	Electric ride-on toy		N
3.J.6.1	receiver		N
3.J.6.2	remote control		N
3.J.6.3	transmitter		N
7	Marking and instructions		N
7.J.1	Remote control ride-on toys		N
7.J.1.1	Documentation		N
7.J.1.2	Instructions for use		N
7.J.1.3	Installation instructions, compatible electric ride-on toys listing, electrical specification		N
7.J.1.4	Manufacturer declaration		N
9	Heating and abnormal operation		N
9.J.1	Remote control ride-on toys		N
9.J.1.1	Automatic stop upon wireless communication cut-off		N
9.J.1.2	Prevention of mutual operation		N
13	Construction		N



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13.J.1	Remote-control ride-on toys		N
13.J.1.2	Restriction of switching from controlled mode to uncontrolled mode		N
13.J.1.3	Avoidance of any control function in uncontrolled mode		N

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3.4 Tables

8	TABLE: Power input (in normal conditions)				N
U (V)	P(W)	Prated (W)	I (A)	Condition/status	
---	---	---	---	---	
Supplementary information:					

9(a)	TABLE: Heating test			P
	Test voltage (V).....	Battery operated DC 24V	Charging mode AC254,4V 50Hz	—
	Ambient (°C).....	20,0	20,0	—
Condition:		Normal operation		Max. dT (K)
Thermocouple locations		dT (K)		
External surface of the enclosure		3.2	5.7	50
Battery compartment		5.4	10.4	50
Battery surface		10.6	15.5	45

9.6	TABLE: Abnormal operation tests				P
	ambient temperature (°C)			20,0	—
component No.	fault	test voltage (V)	test time	result	
---	accessible moving parts locked	DC24V	1H	No hazard	
Supplementary information:---					

9,9	TABLE: Abnormal operation tests				P
	ambient temperature (°C)			20,0	—
component No.	fault	test voltage (V)	test time	result	
IC	failure of an integrated circuit	DC24V	1H	No hazard	
Resistance	S-C	DC24V	1H	No hazard	
Capacitor	S-C	DC24V	1H	No hazard	
U2	S-C	DC24V	1H	No hazard	
Supplementary information:---					



10.1	TABLE: Electric strength at operating temperature		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Supplied terminal of battery "+" & "-" to accessible enclosure		250	NO

10.2	TABLE: Humidity test		P
Relative humidity (RH%)	Temperature (°C)	During (h)	Breakdown (Yes/No)
93	25	48	NO

10.2	TABLE: Electric strength under humid conditions		P
Test voltage applied between:		Voltage (V)	Breakdown (Yes/No)
Supplied terminal of battery "+" & "-" to accessible enclosure		250	NO

12	TABLE: Mechanical strength (Impact test)		P
Impact parts	Impact energy (J)	Impact times	Observe result
Enclosure	0.5	3	Pass

18.1	TABLE: Ball pressure test		N
Part	Test temperature (°C)	Impression diameter (mm)	Allowed impression diameter (mm)
---	---	---	---

18.2	TABLE: Glow wire test		P
Part	Test temperature (°C)	Verdict	
Battery compartment	550	P	



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Attachments

- Photo document
- BOM
- CDF (critical data form)
- Copies of certificates of certified components
- Instruction manual
- Circuit diagram
- Explosion block
- Other if necessary

-----end of report-----

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Figure 1 (external view- all)



Figure 2 (external view-top)

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Figure 3 (external view-bottom)



Figure 4 (external view- side)

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Figure 5 (external view-front)



Figure 6 (external view- side)

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Figure 7 (external view- side)



Figure 8 (external view-charger)

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Figure 9 (external view-switch)



Figure 10 (external view-charge inlet)

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Figure 11 (internal view-fuse)



Figure 12 (internal view-Rechargeable battery)

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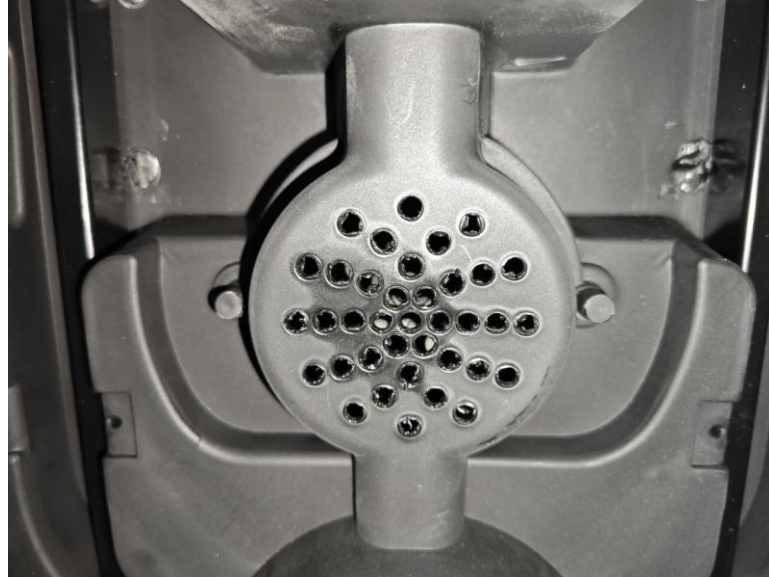


Figure 13 (external view-speaker)



Figure 14 (external view-LED light)

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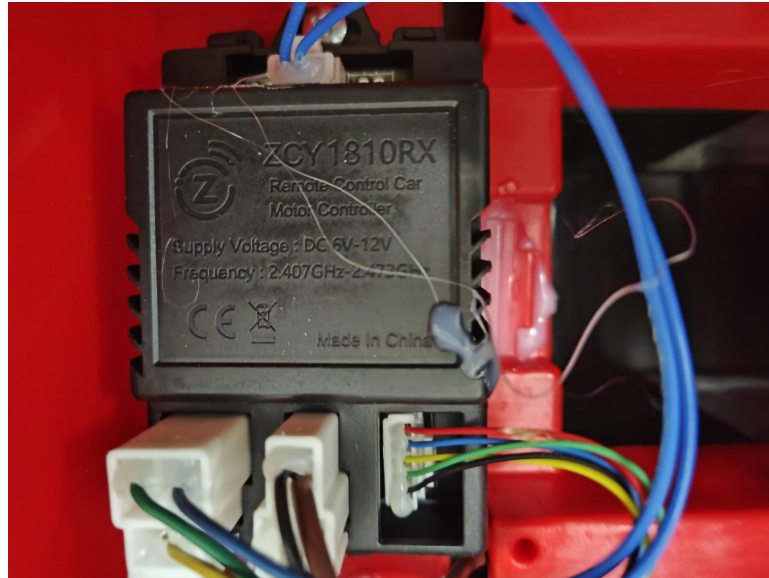


Figure 15 (external view-Car controller)



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