

TEST REPORT

For

BATTERY OPERATED CAR

Test Model: 676A(6V)

Report Number: SET2015-09735

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd

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Entrust Test

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TEST REPORT
EN 62115:2005+A11:2012:
Electric toys- Safety

Client

Applicant.....: CHI LOK BO TOYS COMPANY LIMITED

Address: Daji Industrial Park Shipai Town Dongguan City Guangdong Province

Test item

Description.....: BATTERY OPERATED CAR

Trademark.....: --

Bach No.....: 1436

Model/type reference.....: See Attachment 01:model list

Rating.....: 6Vdc/4.5AH , Adaptor: I/P 100-240V50/60Hz,O/P 8Vd600mA

Equipment mobility.....: --

Age grade.....: 3-6Y

Operation condition.....: Normal working

Class of equipment.....: Class II


Protection of water.....: IP20

Testing laboratory

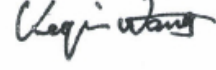
Name.....: **CCIC Southern Electronic Product Testing
(ShenZhen) Co., Ltd**

Address: Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, P. R. China

Testing location.....: As above

Tested by (+ signature).....: Welison  July. 13, 2015

Reviewed by (+ signature).....: Jian Lu  July. 13, 2015


Approved by (+ signature).....: Keqin Wang  July 13, 2015

Testing

Date of receipt of test item.....: 2015-07-07

Date(s) of performance of test.....: 2015-07-07 to 2015-07-13

Date of report issue.....: 2015-07-13

Test specification	--																			
Standard	EN 62115:2005+A11:2012																			
Test procedure	/																			
Procedure deviation	N																			
Non-standard test method	N																			
Manufacturer.....	CHI LOK BO TOYS COMPANY LIMITED																			
Address.....	Daji Industrial Park Shipai Town Dongguan City Guangdong Province																			
Factory.....	No provided																			
Address	No provided																			
Test case verdicts																				
- Test case does not apply to the test object:	N/A (Not Applicable)																			
- Test object does meet the requirement	P (Pass)																			
- Test object does not meet the requirement:	F (Fail)																			
- Test object does not test	N/T (Not Test)																			
Copy of marking plate:																				
 <p style="text-align: center;">Marking 01-power supply</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Applicable age</td> <td colspan="2">37-72 months old</td> </tr> <tr> <td>Weight limit</td> <td colspan="2">30KG</td> </tr> <tr> <td>Power supply</td> <td colspan="2">Chargeable type</td> </tr> <tr> <td>Battery specifications</td> <td colspan="2">DC6V/4.5AH</td> </tr> <tr> <td>Charging source</td> <td>Input: AC 100v-240v 50Hz/60Hz</td> <td>Output DC8V/600mA</td> </tr> <tr> <td>Battery charging time</td> <td>Charging time: 9-10 hours</td> <td>Utility time: 1-2 hours</td> </tr> </table> <p style="text-align: center;">marking 02- BATTERY OPERATED CAR</p>	Applicable age	37-72 months old		Weight limit	30KG		Power supply	Chargeable type		Battery specifications	DC6V/4.5AH		Charging source	Input: AC 100v-240v 50Hz/60Hz	Output DC8V/600mA	Battery charging time	Charging time: 9-10 hours	Utility time: 1-2 hours	
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Attachment 01: model list	<p>611. 611R. 613. 616. 616R. 619. 619R. 619A. 619AR. 621, 621R, 621A, 621AR, 623, 623R, 628, 631, 631R, 633, 633R, 633A, 633AR, 636, 638, 638R, 639, 639R, 653A, 653AR, 653, 653R, 662, 662R, 668, 668R, 669A, 669AR, 669AP, 669APR, 669, 669R, 669P, 669PR, 673, 673R, 676AR(6V), 676A(12V), 676AR(12V), 676, 676R, 678, 678R, 681, 681R, 681P, 681PR, 681B, 681BR, 681BP, 681BPR, 688, 688R, 698, 698R, BI118, BI118R, BI118A, BI118AR, BI118B, BI118BR, BI118CR</p>																			
General descriptions:	BATTERY OPERATED CAR																			
Models difference:	<p>Except the product appearances are different, the rest parts (including the function and structure etc) are same.</p>																			

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
4	GENERAL REQUIREMENT		P
	Toys shall be constructed so that they do not jeopardise the safety and/or health of users or third parties when they are used as intended or in a foreseeable way, bearing in mind the behaviour of children.		P
5	GENERAL CONDITIONS FOR THE TESTS		P
5.2	The tests are carried out on a single sample that shall withstand all the relevant tests.		P
	Test sample ID (clauses 6 to 13)	01#	P
	The tests of clauses 14 to 17 may be made on separate toys.		P
	After the test of clause 9 the toy does not operate, the subsequent tests are carried out on a separate toy.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	---
	Test sample ID (clause 14 to 17)	02#	P
5.4	Toy is intended to be assembled by a child	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	---
	Toy is intended to be assembled by an adult.....	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	---
5.9	Battery toys tested using	<input type="checkbox"/> New alkaline battery <input checked="" type="checkbox"/> Fully charged Li-poly battery <input type="checkbox"/> New button cell <input type="checkbox"/> other battery	---
5.12	Test voltage and frequency	normal input condition	P
5.13	Reverse polarity preventing construction	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
5.14	Possible of being bridged insulation	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A
5.15	Preconditioned sample ID	Sample No.:1#	N/A
	(EN71-1 for BS/EN 62115:2005/A11:2012)		
	Non-preconditioned sample ID.....	02#	P
6	CRITERIA FOR REDUCE TESTING		P
6.1	All toys		P
	Toys comply with the tests of clause 9 with the insulation between parts of different polarity short-circuited	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not applicable	---
6.2	Battery toys are considered to comply with Clauses 10, 11 (except 11.1), 12, 15 (except 15.2), 17 (except 17.1 for battery compartments intended to contain button cell batteries), 18 (except the additional distances for computer toys) and 19 if--		P

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	Can't be bridged between accessible insulations between parts of different polarity by a straight steel pin having a diameter of 0,5mm and any suitable length over 25mm, (insulation between parts of different polarity in battery compartments protected by a cover that can only be removed with the aid of a tool or by two simultaneous movements applied simultaneously are not considered as accessible for the purposes of this requirement), and	<input type="checkbox"/> Can <input checked="" type="checkbox"/> Can not	P
	The total battery voltage measured after 1Ω resistor has been connected after 1s between the supply terminals of the toy, with any current limiting device short-circuited and without the toy being operated.	<input type="checkbox"/> ≤2.5V <input checked="" type="checkbox"/> >2.5V	P

7	MARKING AND INSTRUCTIONS		P
7.1	Toys or their packaging shall be marked with:		P
	- the name, trade mark or identification mark of the manufacturer or responsible vendor.		N/T
	- the model or type reference.		N/T
	When the toy is marked, these markings shall be marked on the main part of the toy		N/T
7.1.1	Battery toys with replaceable batteries shall be marked with	No battery be used	N/A
	- the nominal battery voltage		N/A
	- the symbol for d.c., if the toy has a battery box;		N/A
	If more than one battery is used, the battery compartment shall be marked with		N/A
	- the shape of the batteries in proportional size;		N/A
	- the nominal voltage of batteries		N/A
	- polarity of batteries		N/A
7.1.2	Transformer toys shall be marked with		P
	- their rated voltage, in volts;	100-240V	P
	- the symbol for d.c or a.c, as applicable;	a.c.	P
	- their rated power input, in watts or VA, if applicable;	180mA	P
	- the symbol for transformer for toy and also on the packaging.		P
7.1.3	Dual supply toys	(See 7.1.1 and 7.1.2)	N/A
7.2	The identification for detachable lamps shall be marked with	No lamp	N/A

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	- the rated voltage and type number, or		N/A
	- the maximum power input, or		N/A
	- the maximum current.		N/A
	The marking shall be visible when replacing the lamp.		N/A
7.4	Details concerning cleaning and maintenance		P
	Transformers or battery chargers used with toy are to be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of damage, the toy must not be used with this transformer or battery charger until the damage has been repaired.		P
	Toys shall be provided with instructions for assembly if	Instructions was provided	P
	- They are intended to be assembled by a child;		N/A
	- these instructions are necessary for safe operation of the toy.		P
	- The toy is intended to be assembled by an adult.		P
	For transformer toys		P
	–“Warning Not suitable for children under 36 months”.		P
	The toy is not to be connected to more than the recommended number of power supplies.	DC8V,600mA	P
	The wires are not to be inserted into socket outlets.		N/A
	Instructions and markings for dual supply toys shall include the instructions and markings required for both battery toy and transformer toys		N/A
	The instructions for battery toys with replaceable batteries		P
	- how to remove and insert the batteries;		N/A
	- non-rechargeable batteries are not to be recharged;		N/A
	- rechargeable batteries are only to be charged under adult supervision(for toys supplied with a battery charger for use by children, this instruction may be replaced by: 'Batteries are only to be charged by adults or by children at least 8 years old') ;	Instructions was provided	P
	- rechargeable batteries are to be removed from the toy before being charged;		P
	- different types of batteries or new and used batteries are not to be mixed;		N/A

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	- batteries are to be inserted with the correct polarity;		N/A
	- exhausted batteries are to be removed from the toy;		N/A
	- the supply terminals are not to be short-circuited;		N/A
	For transformer toys		N/A
	- "Warning! Not suitable for children under 36 months".		N/A
	- the toy shall only be used with a transformer for toys;		N/A
	- the model number or specification of a suitable transformer for use with the toy;		P
	- the transformer is not a toy;		P
	- toys liable to be cleaned with liquids are to be disconnected from the transformer before cleaning		P
	Instructions for toys supplied with a battery charger for use by children		P
	-batteries are only to be charged by adults or by children at least 8 years old,		P
	The toy is to be operated in water only when fully assembled in accordance with the instructions.		N/A
	For computer toys Which do not meet the requirement of 14.Z1 b), the instructions shall state the substance of following:		N/A
	- "The toy is only to be connected to Class II equipment bearing the following symbol"		P
7.Z1	The accessible parts of toys		P
	Toys 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 Z1 shall carry the following warning that shall be visible to consumers at the time of purchase: "Warning Not suitable for children under 36 months" anni		P
	Toys 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 Z1 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/A

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	A brief indication of specific hazard calling for this restriction (e.g. hot surface) shall accompany the age warning or appear in the instructions which accompany the toy.		P
7.5	The packaging has to be retained since it contains important information.		P
7.6	Official language of the country in which the toy is to be sold.	Only english part was checked	P
7.7	Required markings legible and durable.		P
	A piece of cloth soaked with water		P
	A piece of cloth soaked with petroleum spirit.		P
	The marking shall be legible		P
	Markings not remove easily and show no curling		P

8	POWER INPUT		P
	The power input shall not exceed the rated power input by more than 20%	No exceed 20%,see table 4	P
	-transformer toys;		P
	-dual supply toys.		N/A

9	HEATING AND ABNORMAL OPERATION		P
9.1	Not attain excessive temperatures in use.		P
	Shall not malfunction in such a way as to cause any unintended operation that may impair safety.		P
	No risk of fire, mechanical damage impairing safety or other hazards.	No risk of fire	P
	Toys which have an electronic control system shall be designed and manufactured in such a way that they operate safely .		N/A
	Toys contain protective electronic circuit or toys with an electronic off mode and /or stand-by mode shall be comply with Annex ZB		P
9.3	Toys are operated under normal operation.	See	P
9.4	The insulation between parts of different polarity which is accessible being short-circuited, except		N/A
	Insulation between parts of different polarity in battery compartments.		N/A
9.5	Any control which limits the temperature is short-circuited, unless	No any control parts	N/A

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	- 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.		N/A
9.6	Accessible moving parts locked.		P
9.7	Additional power source connecting in series or in parallel.		N/A
9.8	Electronic circuits		N/A
	A conductor of a printed-circuit board becomes open-circuit	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
	- the material of the printed-circuit board withstands the needle-flame test	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
	- the toy withstands the test of 9.8.2 with the open-circuited conductor bridged.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (See 9.8.2)	N/A
9.8.1	Fault conditions are not applied to circuits or parts of circuits where both of the following conditions are met:		N/A
	- low-power circuit points determined.....	<input checked="" type="checkbox"/> on supply terminals <input type="checkbox"/> between ____ and ____ (See table 2)	N/A
	- The protection against fire hazard or dangerous malfunction in other parts of the toy rely on the correct functioning of the electronic circuit.....	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	N/A
9.8.2	The a) to f) fault conditions are considered		N/A
9.9	During the tests, the temperature rises of accessible parts are monitored continuously. Furthermore,		P
	- sealing compound shall not flow out;		P
	- the toy shall not emit flames or molten metal;		P
	- dangerous substances shall not be produced, such as poisonous or ignitable gas, in hazardous amounts;		P
	- vapour shall not accumulate in the toy;		P
	- enclosures shall not deform to such an extent that compliance with this European Standard is impaired;		P
	- batteries shall not leak hazardous substances or erupt;		P
	- materials, including the cotton gauze, shall not char.		P

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
10	ELECTRIC STRENGTH AT OPERATING TEMPERATURE		P
	The electrical insulation of the toy at operating temperature shall be adequate.	250V	P
	No breakdown shall occur.		P

11	MOISTURE RESISTANCE		P
11.1	Battery toys intended to be used in water and toys likely to be cleaned with liquid shall have an enclosure providing the appropriate protection.		N/A
	Toys likely to be cleaned with liquid test according to sub-clause 14.2.4 of IEC 60529.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
	Battery toys intended to be used in water is immersed in water and operated for 15min.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A
	No trace of water		N/A
	Electric strength test		N/A
11.2	Toys shall be resistant to humidity		P
	Humidity test carried out for 48h	30°C, 93%	P

12	ELECTRIC STRENGTH AT ROOM TEMPERATURE		P
	Electric strength test		P
	No breakdown shall occur.		P

13	MECHANICAL STRENGTH		P
	Enclosures shall have adequate mechanical strength		P
	Blow test with an impact energy of 0.7J		P
	Test part	Enclosure of toy	P
	Test part		--

14	CONSTRUCTION		P
14.1	The toys' supply shall not exceed 24V.	6.0V	P
	The working voltage between any two accessible parts of the toy shall not exceed 24V when the toy is supplied at rated voltage.	Less than 24V	P
14.2	The battery charger and the transformer of transformer toys shall not be an integral part of the toy		N/A

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	Controls for the toy shall not be incorporated in the transformer.		N/A
14.3	Transformer toys shall not be intended for use in water		P
	Dual supply toys shall not be intended for use in water		N/A
14.4	Transformer toys shall not be intended for use by children under 3 years old.	Use by 3-6years	P
	Dual supply toys shall not be intended for use by children under 3 year old		N/A
14.5	Non-self-resetting thermal cut-outs	No thermal cut-outs	N/A
14.6	Accessible of button cells and type R1 batteries	Battery can't Accessible	P
	- aid of a tool, or		P
	- at least two independent movements to open the cover of battery compartment.		N/A
14.7	Accessible of batteries of toys intended for children under 3 years old		N/A
	- aid of a tool, or		N/A
	- at least two independent movements to open the cover of battery compartment, or		N/A
	- the battery compartment does not open after drop cylindrical metallic mass test.		N/A
14.8	Rechargeable batteries in toys shall not leak.		P
	The electrolyte shall not become accessible.	enclosure	P
14.9	Not be supplied by batteries connected in parallel, unless		P
	Toys will not be impaired compliance with this standard in below conditions		P
	- mixture of used and new batteries, and		P
	- the reverse insertion of batteries		P
14.10	The plug and socket-outlets of toys shall not be interchangeable with plugs and socket-outlets listed in IEC 60083.		P
	Toys intended for children under 3 years old shall not use cords and wires without connectors.		N/A
	Connectors(jack plugs, USB plugs, RCA phono plugs etc.) with a diameter or diagonal measurement shall is less than 3.75mm, or more than 5.25mm, the length less than 7mm.		N/A
14.11	Non-detachable part		P
	- preventing contact with moving parts or hot surfaces;	moving parts were protected	P

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	Test part; pull force	90N,10s	P
	- preventing access to location where explosion or fire could be initiated.		P
	Test part; pull force	90N,10s	P
14.12	Impossible to charge rechargeable batteries when they are in the toy, unless		P
	- for toys having a mass less than 5 kg,		N/A
	· Impossible to replace rechargeable batteries by primary batteries without breaking the toy;		N/A
	· Impossible to charge separate batteries or other toys from the toy;		N/A
	· Impossible to make a connection of incorrect polarity when recharging the batteries;		N/A
	· Impossible to operate the toy during charging unless it complies with the requirements for a dual supply toy;		N/A
	- for other toys		P
	· the battery is fixed in the toy;		P
	· connecting means are provided that prevent connection to standardised primary batteries and ensure correct polarity during charging and charging of the rechargeable batteries;		P
	· Impossible to operate the toy during charging		P
14.13	Power input of series motors <20W		P
14.14	Toys shall not contain asbestos.		P
14.15	Internal parts of a toy having a voltage exceeding 24V shall not lead to any risk of harmful electric shock	No exceed 24V	N/A
	- the working voltage between any two parts of the toy shall not exceed 5 KV when the toy is supplied at rate voltage;		N/A
	- the maximum current from a circuit with a generated voltage exceeding 24V shall be less than 0.5mA;		N/A
	- the maximum energy from a circuit with a generated voltage exceeding 24V shall be less than 2mJ;		N/A
	- the discharge shall not exceed 45uC.		N/A
14.16	Battery toys for children where the intended fixed position of the battery compartment can be above a child shall have a battery compartment that prevents battery electrolyte leakage from the toy.		P

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
14.Z1	Computer toys shall be safe when connected to a computer, console, monitor screen or other audio-video equipment, even in case of a fault in the equipment it is connected to.	The unit is not computer toys	N/A
	Computer toys shall therefore comply with one of the following conditions:	The unit is not computer toys	N/A
	- the computer toy shall include an instruction to advise that the toy shall only be connected to equipment of class II (see 7.4); or	The unit is not computer toys	N/A
	- conductive parts of computer toys electrically connected to a computer, console, monitor screen or other audio-video equipment shall not be accessible in the toy and the insulation between such parts and accessible parts shall have a thickness of at least 1mm and an adequate electric strength.	The unit is not computer toys	N/A

15	PROTECTION OF CORDS AND WIRES		P
15.1	Wireways are smooth and no sharp edges		P
	Holes in metal shall be smooth or prevented by bushing		P
	Effectively prevention from contact moving parts.		P
15.2	Bare wiring and heating elements	No exist bare wiring and heating element	N/A

16	COMPONENTS		P
16.1	Compliance of IEC components		P
	Component list		P
16.1.1	Switches and automatic controls carrying a current exceeding 3 A.	Less than 3A	N/A
16.1.2	Components marked with operating characteristics		P
16.2	Toy shall not be fitted with:		P
	- thermal cut-out which can be reset by a soldering operation;	No thermal cut-out	N/A
	- mercury switches.		P
16.3	Transformers for toys shall comply with EN 61558-2-7 for linear types or EN 61558-2-7 and EN 61558-2-16 for switch mode types.		N/A
16.4	Battery charges supplied with a toy shall comply with IEC 60335-2-29 and if they are battery chargers for use by children they shall comply with annex AA of that standard.		P

EN 62115:2005/A11:2012: Electric toys - Safety

Clause	Requirement - Test	Result - Remark	Verdict
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17	SCREWS AND CONNECTIONS		P
17.1	Screws used for fixings and electrical connection which may impair the compliance		P
	Screws made of insulating material		P
	Electrical connection screw into metal		N/A
	Screws and nuts used for electrical connections or are likely to be tightened by the user.		P
	Test part; torque	φ 3.0mm,0.5NM	P
	Test part; torque	φ 3.6mm,0.6NM	P
17.2	Electrical connections carrying a current exceeding 0.5A		P
	No transmitting of contact pressure are through insulating material, unless		P
	Sufficient resiliency in the metallic parts		P

18	CREEPAGE DISTANCES AND CLEARANCES		P
	Creepage distances and clearances of functional insulation shall not be less than 0.5mm, but	>0.5mm	P
	For function insulation on PCB, except at their edges, 0.2mm is allowed if protected against the deposition of dirt.		P
	Internal parts of toys that comply with subclause 14.15 and have a voltage exceeding 24V shall have clearance and creepage distances for function insulation equal to or greater than the values in Table 18 of IEC 60335-1 for pollution degree 2 except when the toy meets Clause 9 with this distance short circuited.		N/A
	For computer toys intended to be electrically connected to a computer, console, monitor screen or other audio-video equipment, both creepage and clearance distance between accessible parts and conductive parts shall be at least 1.5mm.	No computer toys	N/A

19	RESISTANCE TO HEAT AND FIRE		P
	Toys have a working voltage exceeding 12V and a current exceeding 3A		N/A
	Ball pressure test		N/A
	Test part; temperature; diameter.....	Enclosure,75°C, 1.3mm	P

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	Test part; temperature; diameter	Connector, 75°C, 1.5mm	P
19.2	Non-metallic material enclosing electric parts and parts of insulating material supporting electric parts		P
19.2.1	Glow-wire test of IEC 60695-2-11 (550°C)		P
	Test part	Enclosure	P
	Test part	Connector	P
	HBF material (ie. soft or foamy)		N/A
19.2.2	Parts of insulating material supporting or distance 3mm form connection >3A and working voltage>12V		N/A
	Grow-wire test of IEC 60695-2-11 (650°C)		N/A
	Test part		N/A
	Test part		N/A
	Withstand the 650 °C glow-wire test but with flame >2s		N/A
	Needle-flame test of Annex B		N/A
	Test part		N/A
	Test part		N/A

20	RADIATION, TOXICITY AND SIMILAR HAZARDS		P
	Toys shall not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.	The submitted sample should meet EN71-3's requirement, which was not included in this report.	P
	Toys incorporating lasers and or light emitting diodes(LED) shall comply with Annex E.	Laser and LEDs should be classified class 1 in accordance with IEC 60825-1, which was not included in this report	N/T

ANNEX A	EXPERIMENTAL SETS (NORMATIVE)		P
7	Marking and instructions		P
7.1	The substance of the following shall be indicated on the packaging:		P
	- WARNING: Only for use by children aged 8 years and older;		P
	- instructions for parents are included and have to be observed.		P
7.4	The minimum age instructions for parents	3-6Y	P
	Detailed information on		N/T

EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement - Test	Result - Remark	Verdict
	-How to set up and perform each experiment		P
	-Possible hazards		P
	-Technical information concerning electrical parts		P
	-Their behaviour		N/A
	-How to handle them properly		N/A
	-All expected hazard during experiment		P
	Instructions for children and for parents		N/A
	Warning against manipulation of protective devices		N/A
14	Construction		P
14.1	The current shall not exceed 5A and the power input shall not exceed 50VA, unless		P
	Operation Period <10s		N/A

N/A

ANNEX C	AUTOMATIC CONTROLS AND SWITCHES (NORMATIVE)		N/A
C1	Automatic controls		N/A
	- thermostats: 3000 cycles		N/A
	- self-resetting thermal cut-outs: 300 cycles		N/A
	- non-self-resetting thermal cut-outs: 10 cycles		N/A
C2	Switches		N/A

ANNEX E	TOYS INCORPORATING LASERS AND LIGHT EMITTING DIODES (NORMATIVE)		N/A
5	Carry out the test after pre-condition		N/A
20	Radiation, toxicity and similar hazards		N/A
	Toys shall not emit harmful radiation (IEC 60825-1)		N/A
	Lasers in toys shall be classified Class I.		N/A
	Light emitting diodes shall be classified Class I.		N/A

BS EN/EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement + Test	Result - Remark	Verdict

16	Table 1: Component					N/A
object/part No.	code	manufacturer/ trademark	type/mod el	technical data	standard	mark(s) of conformity

<p>The codes above have the following meaning:</p> <p>A - The component is replaceable with another one, also certified, with equivalent characteristics</p> <p>B - The component is replaceable if authorised by the test house</p> <p>C - Integrated component tested together with the appliance</p> <p>D - Alternative component</p>						

9	Table 2: Heating and Abnormal operation		P
	Type reference.....	Normal	---
	Original ambient temperature	24.2°C	P
	Operation voltage	8.0Vdc	P
	Operation current.....	---	N/A
9.2	Test position.. ..	Test corner	P
	Rated voltage for battery toys..... 0.94 or 1.06 times rated voltage for transformer toys.....:	---	N/A
9.3	- Normal operation.....:		P
9.4	- The insulation between parts of different polarity which is accessible being short-circuited, repeat 9.3.....:		N/A
9.5	- Short-circuited any control which limits the temperature, repeat 9.3.....:		N/A
9.6	- Locked accessible moving parts, repeat 9.3.....:	Motor will be protected after locked about 10second..	P
9.7	- Any power source in addition, repeat 9.3 and 9.4.....:		N/A

BS EN/EN 62115:2005/A11:2012: Electric toys - Safety

Clause	Requirement + Test	Result - Remark	Verdict
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Temperature rise (K) of part	9.3	9.3	9.5	9.6	9.7	Limit
	Working mode	Charging mode	Normal mode	Motor locked		
Charger surface	7.6	--	--	--	--	35
Output cord	1.8	--	--	--	--	35
Wire of rechargeable battery	4.2	4.8	--	--	--	55
Rechargeable battery surface	5.4	3.5	--	--	--	45
Wire of the motor	1.5	4.2	--	--	--	55
Relay surface	2.3	5.5	--	--	--	35
Switch	0.4	1.2	--	--	--	35
Ambient	24.2	24.1	--	--	--	--

BS EN/EN 62115:2005/A11:2012: Electric toys - Safety			
Clause	Requirement + Test	Result - Remark	Verdict

9.8.1	Table 3 Determination for Low Power Circuit						N/A
Measured Positions	Trial	Variable Resistor Power Delivery (W)			Low power circuit		
					<input type="checkbox"/> Yes <input type="checkbox"/> No		
					<input type="checkbox"/> Yes <input type="checkbox"/> No		
					<input type="checkbox"/> Yes <input type="checkbox"/> No		
9.8.2	a) short-circuit between parts of different polarity; part; result.....						---
	b) open circuit at the terminals of any component; part; result.....						---
	c) short-circuit of capacitors; part; result.....						---
	d) short-circuit of any two terminals of an electronic component; part; result						---
	e) Failure of triacs in the diode mode; part; result..:						---
	f) Failure of an integrated circuit; part; result						---
Temperature rise (K) of	a	b	c	d	e	f	Limit

8	Table 4: Power Input					P
Input deviation of/at:	P rated (W)	P measured (W)	dP	Required dP	Remark	
100V	18	6.5	--	<+20%	P	
240V	43.2	7.3	--	<+20%	P	

Product photographs



Photo 01-test model: 676A(6V)

Photograph provided by the client



619 619R:



619A 619AR:



621 621R:



621A 621AR:



623 623R:



628:



631 631R:



633 633R:



633A 633AR:



636:



638 638R:



639 639R:





653 653R 653A 653AR:



662 662R:



668 668R:



669 669A 669P 669R 669AR 669PR:



673 673R:



676 676R 676A(6V) 676AR(6V) 676A(12V) 676AR(12V):



678 678R:



681 681P 681B 681BP 681R 681PR 681BR 681BPR:



688 688R:



698 698R:

