

Particulars: test item vs. test requirements

Toy type Battery toy
Mass of equipment (Kg) 0.157kg

Test case verdicts

Test case does not apply to the test object N(.A.)
Test item does meet the requirement P(ass)
Test item does not meet the requirement F(ail)

Testing

Date of receipt of test item May 09, 2019
Date(s) of performance of test..... May 09, 2019 to May 15, 2019

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.
The test results presented in this report relate only to the item tested.
"(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.

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Clause	Requirement + Test	Result - Remark	Verdict
1.	Scope		--
2.	Normative references		--
3.	Definitions	Battery toy	--
4.	General requirement		P
5.	General conditions for the tests		P
6.	Criteria for reduced testing		P
7.	Marking and instructions	see note 1	P
8.	Power input		N
9.	Heating and abnormal operation	See table 9.3	P
10.	Electric strength at operating temperature	No breakdown	P
11.	Moisture resistance	No damaged	P
12.	Electric strength at room temperature	No breakdown	P
13.	Mechanical strength	No damaged	P
14.	Construction		P
15.	Protection of cords and wires		P
16.	Components		P
17.	Screws and connections	No damage occurred which can impair the further use of the fixings or electrical connections	P
18.	Creepage distances and clearances		P
19.	Resistance to heat and fire	See table 19	P
20.	Radiation hazards Toxicity and similar hazards	No radiation hazards	N
Annex A	Experimental sets		N
Annex E	Toys incorporating lasers and light-emitting diodes	Note 2	P
Annex ZB	Toys with protective electronic circuit		N
Annex ZC	Toys generating ElectroMagnetic Fields (EMF)		P

Note 1: The destination country to which the toy intended to be sold was not declared, only the instructions written in English were verified. Manufacturer should ensure the required markings and instructions would be written in official language(s) of the destination country for the full compliance of exportation.

Note 2: The submitted sample incorporating lasers or light emitting diodes(LED), compliance with the standard covered by this report is on condition that the lasers or light emitting diodes in toys are classified as class 1 in accordance with IEC 60825-1 standard under the condition specified in annex E of EN62115 / IEC 62115.

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Details of Test Results

Clause 6 Criteria for reduced testing

6.2 As the model was found that the battery voltage exceeded 2.5V 1 second after a 1 ohm resistor had been connected to the terminals, 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), 19 were applicable.

Clause 9 Heating and abnormal operation

9.2 The model was placed on the floor of the test corner during normal and abnormal operation.

9.3 The unit was operated by 3x1.5Vdc AA size batteries operated until steady conditions were established.

The maximum temperature rises were recorded as follows:

Normal temperature rise		
Location	Temperature Rise (K)	Limit (K)
Battery surface	2.6	45
Battery compartment	1.3	35
Plastic enclosure	0.8	35
Ambient	25.2	--

9.4 This clause was not applicable since the accessible insulation between different polarity could not be bridged.

9.6 No damaged and no hazards when lock motors, and the temperature raise not exceed the limits value.

9.8.2 This clause was not applicable since the electronic circuit was a low power circuit. Also the protection against fire hazard or dangerous malfunction in other parts of the toy did not rely on the correct function of the electronic circuit.

Clause 16 Components

16.2 The samples submitted are not fitted with mercury switch nor thermal cut-outs which could be reset by soldering operation.

Clause 19 Resistance to heat and fire

19.2.1 Glow-wire test (550 Deg. C)

Location / Part	Test temperature (°C)	Result Observation
Battery compartment cover	550	No flame, no molten drop

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	PCB	550	No flame, no molten drop

photo



Fig.1 overall view



Fig.2 overall view