



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T51910230178EL

Date: MAY 26, 2019

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DOUBLEEAGLE INDUSTRY (CHINA) LIMITED

XINGDA INDUSTRIAL PARK, CHENGHAI DISTRICT,
SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

Name of Product/Item	: RADIO CONTROL TOYS
Item No.	: E527-003
Test Item No.	: E527-003
Supplier	: DOUBLEEAGLE INDUSTRY (CHINA) LIMITED
Manufacturer	: DOUBLEEAGLE INDUSTRY (CHINA) LIMITED
Country of Origin	: CHINA
Labeled Age Grading	: 6+
Request Age Grading	: 3+
Test Age Grading	: 3 YEARS AND ABOVE
Packaging	: Gift Box
Power Source for Test	: 1 x 4.8V 400mAh "AA" "NI-MH" rechargeable battery pack for fire truck 2 x 1.5V "LR6" size batteries (Duracell) for controller
Date of receipt	: APR 12, 2019
Testing Period	: APR 12, 2019 TO MAY 26, 2019

Number of sample: 2



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SGS-CSTC Testing Technology Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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Test Requested		Conclusion
1.	Test for compliance with the electric toys safety requirement with reference to EN 62115: 2005 + A12: 2015.	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center



Xiao Yongbo, Spring
Supervisor
CNAS Approved Signatory



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EN 62115 SPECIFICATION REQUIREMENTS & TEST RESULTS

<u>Clause</u>	<u>Assessment</u>
1. Scope	--
2. Normative references	--
3. Definitions	--
4. General requirement	--
5. General conditions for the tests	--
6. Selection of tests	--
7. Marking and instructions	Pass
(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.)	
8. Power input	N/A
9. Heating and abnormal operation	Pass
10. Electric strength at operating temperature	Pass
11. Moisture resistance	Pass
12. Electric strength at room temperature	Pass
13. Mechanical strength	Pass
14. Construction	Pass
15. Protection of cords and wires	Pass
16. Components	Pass
17. Screws and connections	Pass
18. Creepage distances and clearances	Pass
19. Resistance to heat and fire	Pass
20. Toys incorporating lasers and or light emitting diodes	Pass
Other Radiation, Toxicity and similar hazards	--
(Remark: It is the manufacture's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)	
Toys with an integrated field source shall comply with Annex ZC	N/A
(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)	

N/A = Not Applicable



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DETAILS OF TEST RESULTS

Clause 6 Criteria for reduced testing

- 6.2 The fire truck was not under the exemption conditions stated in this clause, therefore, clauses 7, 9 to 20 shall be applicable to be tested.
- 6.2 The controller was under the exemption conditions stated in this clause, therefore, only clauses 7, 9, 11.1, 13, 14, 15.2, 16, 17.1,18 and 20 shall be applicable to be tested.

Clause 9 Heating and abnormal operation

- 9.1 No electronic protective circuit prevent the hazardous conditions listed in 9.9 or dangerous malfunction during the tests of 9.8.
- 9.2 The fire truck was placed on the floor of the test corner during normal and abnormal operation. The controller was freely suspended during normal and abnormal operation.
- 9.3 The rechargeable battery pack of fire truck was charged by the USB until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 18.3-20.9

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	15.8	33K

- 9.3 The fire truck was operated by 1 x 4.8V 400mAh “AA” “NI-MH” rechargeable battery pack and the controller was operated by 2 x 1.5V “LR6” size batteries (Duracell) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.5-20.7

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
<u>Fire truck</u>		
Battery surface	13.1	33K
Enclosure (near PCB and speaker)	8.2	50K
Enclosure (near LED)	0.6	50K
Enclosure (near motor for front wheel)	17.2	50K
Enclosure (near motor for rear wheel)	4.7	50K
Enclosure (near motor for pump)	0.5	50K
Enclosure (near motor for turnplate)	0.7	50K
Enclosure (near motor for ladder)	0.4	50K
<u>Controller</u>		
Battery surface	1.3	45K
Enclosure (near PCB and LED)	1.0	50K



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9.6 The fire truck was operated by 1 x 4.8V 400mAh “AA” “NI-MH” rechargeable battery pack with accessible moving parts (front wheel) locked (one cycle) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.6-20.1

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	1.8	33K
Enclosure (near PCB and speaker)	2.6	50K
Enclosure (near LED)	0.4	50K
Enclosure (near motor for front wheel)	1.8	50K
Enclosure (near motor for rear wheel)	0.3	50K
Enclosure (near motor for pump)	0.0	50K
Enclosure (near motor for turnplate)	0.2	50K
Enclosure (near motor for ladder)	0.2	50K

9.6 The fire truck was operated by 1 x 4.8V 400mAh “AA” “NI-MH” rechargeable battery pack with accessible moving parts (rear wheel) locked (one cycle) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.9-20.7

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	1.6	33K
Enclosure (near PCB and speaker)	2.7	50K
Enclosure (near LED)	0.8	50K
Enclosure (near motor for front wheel)	1.6	50K
Enclosure (near motor for rear wheel)	0.8	50K
Enclosure (near motor for pump)	0.3	50K
Enclosure (near motor for turnplate)	0.5	50K
Enclosure (near motor for ladder)	2.2	50K



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9.6 The fire truck was operated by 1 x 4.8V 400mAh “AA” “NI-MH” rechargeable battery pack with accessible moving parts (turnplate) locked (one cycle) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.9-20.1

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	2.2	33K
Enclosure (near PCB and speaker)	2.4	50K
Enclosure (near LED)	0.9	50K
Enclosure (near motor for front wheel)	1.3	50K
Enclosure (near motor for rear wheel)	0.3	50K
Enclosure (near motor for pump)	0.1	50K
Enclosure (near motor for turnplate)	0.4	50K
Enclosure (near motor for ladder)	0.2	50K

9.6 The fire truck was operated by 1 x 4.8V 400mAh “AA” “NI-MH” rechargeable battery pack with accessible moving parts (ladder) locked (one cycle) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature (°C) : 19.1-20.1

<u>Location</u>	<u>Temperature Rise (K)</u>	<u>Limit (K)</u>
Battery surface	1.3	33K
Enclosure (near PCB and speaker)	2.0	50K
Enclosure (near LED)	0.7	50K
Enclosure (near motor for front wheel)	0.6	50K
Enclosure (near motor for rear wheel)	0.4	50K
Enclosure (near motor for pump)	0.9	50K
Enclosure (near motor for turnplate)	0.6	50K
Enclosure (near motor for ladder)	1.1	50K

9.6 This clause was not applicable to the unit since there was no any accessible moving part on it. (for pump)

9.8 The unit was evaluated and found to comply with the relevant requirement.

Clause 16 Components

16.2 The sample tested was not fitted with a mercury switch or thermal cut-out which could be reset by a soldering operation.



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Clause 19 Resistance to heat and fire

19.2.1 Glow-wire test (550 °C) in accordance with IEC 60695-2-11

<u>Location / Part</u>	<u>Result / Observation</u>
<u>Fire truck</u> The battery compartment cover	No flame, no molten drop

Detail of Radiation, toxicity and similar hazards

LED in this unit shall be classified Class 1 in accordance with IEC 60825-1.

Part under test	Wavelength	Emission Duration	Measured Accessible Emission Level (MAEL)	Limit	MAEL / Limit	Comment	
Small white LED of fire truck	a)	452.0 nm	100 sec.	0.4 mJ	4.3 mJ	<1	Pass
		536.0 nm	100 sec.	0.3 mJ	204.7 mJ		
	b)	452.0 nm	100 sec.	86.0 μW	4752.2 μW	<1	Pass
		536.0 nm	100 sec.	70.0 μW	4752.2 μW		
Big white LED of fire truck	a)	452.0 nm	100 sec.	3.1 mJ	4.3 mJ	<1	Pass
		532.0 nm	100 sec.	2.7 mJ	170.2 mJ		
	b)	452.0 nm	100 sec.	980.0 μW	7177.5 μW	<1	Pass
		532.0 nm	100 sec.	854.0 μW	7177.5 μW		
Red LED of fire truck	a)	641.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	641.0 nm	100 sec.	3.0 μW	390.0 μW	<1	Pass
Red LED of controller	a)	631.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	631.0 nm	100 sec.	76.0 μW	390.0 μW	<1	Pass
Red LED of USB	a)	629.0 nm	100 sec.	N/A	N/A	N/A	N/A
	b)	629.0 nm	100 sec.	39.0 μW	390.0 μW	<1	Pass

Remark: a) For Retinal Photochemical Hazard
 b) For Retinal Thermal Hazard
 N/A = Not Applicable



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