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## **CERTIFICATE OF COMPLIANCE**

SGS United Kingdom A UKAS Accredited Test House

**Client Name** : ZHANG BO TOYS FACTORY  
**Test Report Number** : T51510270088EL  
**Reference Number** : WSZ-UK5151270175EL  
**Item Number** : PLEASE SEE REPORT.  
**Sample Description** : REMOTE CONTROL AIRCRAFT SERIES  
**Date of Issue** : DEC 30, 2017

### **Applied Standards**

EN 62115: 2005 + A12: 2015 Electrical Toy Safety Test\*

### **Result**

PASS

This certificate of compliance must not be used without the attached reference test report.  
Denote: \* Test items are accredited

Lin Shuzhen, Dora  
Director  
SGS SHENZHEN



Zee Ellahi  
Operations Manager  
SGS United Kingdom Ltd.

The report attached to this certificate has been checked and approved by SGS United Kingdom Ltd who holds a copy of the relevant documentation in its office. This certificate confirms test results by another SGS entity without SGS UK Ltd having done the testing itself. This Certificate is issued by SGS UK Ltd. under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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Shenzhen Inspection Technology Laboratory

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ZHANG BO TOYS FACTORY

XIACUN INDUSTRIAL ZONE, LIANXIA TOWN,  
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG,  
CHINA

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

Name of Product/Item	: REMOTE CONTROL AIRCRAFT SERIES	
Item No.	: XS801, XS801-1, XS801C-1, XS801C, XS801W, XS802, XS802C, XS802W, XS803, XS803C, XS803W, XS804, XS804C, XS804W, XS805, XS805C, XS805W, XS806, XS806C, XS806W, XS807, XS807C, XS807W, XS808, XS808C, XS808W, XS809, XS809C, XS809W, XS810, XS810C, XS810W, XS811, D61, D62, D63, D51, D52, D53, D86, D85, D65	
Test Item No.	: XS801	
Labeled Age Grading	: 3+	
Request Age Grading	: 6+	
Assessed Age Grading	: 3 YEARS AND ABOVE	
Packaging	: Poly Bag	
Rating	: 1 x 3.7V 500mAh "Li-Poly" size rechargeable battery for aircraft 4 x 1.5V "LR6" size batteries for controller	
Date of receipt	: DEC 14, 2017	Number of sample : 5
Date of sample first resubmit	: DEC 28, 2017	Number of sample : 1
Testing Period	: DEC 14, 2017 TO DEC 30, 2017	

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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. (Except clause 20 Radiation, Toxicity and Similar hazards as per client request)	PASS

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

Signed for and on behalf of  
 SGS-CSTC Standard Technical Services Co., Ltd.  
 Shenzhen Branch-Toy laboratory

Xiao Yongbo Spring  
 Senior Engineer  
 HOKLAS Approved Signatory

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### EN 62115 SPECIFICATION REQUIREMENTS & TEST RESULTS

Clause	Assessment	Remarks
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	1)
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	N/C	2)
Other Radiation, Toxicity and similar hazards	--	3)
Toys with an integrated field source shall comply with Annex ZC	Pass	

N/A = Not Applicable; N/C = Not Conducted

- Remark 1): 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.
- Remark 2): Lasers and LEDs should be classified Class 1 in accordance with IEC 60825-1, which was not included in this report
- Remark 3): It is the manufacturer'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.

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## DETAILS OF TEST RESULTS

### Clause 6 Criteria for reduced testing

6.2 The unit was not under the exemption conditions stated in this clause, therefore, clauses 7, 9 to 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 aircraft 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 of aircraft was charged by the USB until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature ( °C ) : 18.8-20.6

Location	Temperature Rise (K)	Limit (K)
Battery surface	0.5	33

9.3 The aircraft was operated by 1 x 3.7V 500mAh "Li-Poly" size rechargeable battery and the controller was operated by 4 x 1.5V "LR6" size batteries (Duracell) until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature ( °C ) : 20.3-20.6

Location	Temperature Rise (K)	Limit (K)
<u>Aircraft</u>		
Battery surface	7.2	33
Enclosure (near PCB)	7.6	50
Enclosure (near motor for the left front airscrew)	2.5	50
Enclosure (near motor for the right front airscrew)	2.8	50
Enclosure (near motor for the right rear airscrew)	5.2	50
Enclosure (near motor for the left rear airscrew)	2.9	50
Enclosure (near LED)	2.8	50

#### Controller

Battery surface	1.2	25
Enclosure (near PCB)	1.4	50
Surface of LED	1.9	50

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9.6 The aircraft was operated by 1 x 3.7V 500mAh "Li-Poly" size rechargeable battery with accessible moving parts (left front aircrew) locked until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature ( °C ) : 20.0-20.8

Location	Temperature Rise (K)	Limit (K)
Battery surface	1.9	33
Enclosure (near PCB)	1.9	50
Enclosure (near motor for the left front airscrew)	1.6	50
Enclosure (near motor for the right front airscrew)	1.1	50
Enclosure (near motor for the right rear airscrew)	1.1	50
Enclosure (near motor for the left rear airscrew)	1.2	50
Enclosure (near LED)	1.4	50

9.6 The aircraft was operated by 1 x 3.7V 500mAh "Li-Poly" size rechargeable battery with accessible moving parts (right front airscrew) locked until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature ( °C ) : 20.0-20.7

Location	Temperature Rise (K)	Limit (K)
Battery surface	0.7	33
Enclosure (near PCB)	0.4	50
Enclosure (near motor for the left front airscrew)	0.1	50
Enclosure (near motor for the right front airscrew)	0.7	50
Enclosure (near motor for the right rear airscrew)	0.3	50
Enclosure (near motor for the left rear airscrew)	0.3	50
Enclosure (near LED)	0.2	50

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9.6 The aircraft was operated by 1 x 3.7V 500mAh "Li-Poly" size rechargeable battery with accessible moving parts (right rear airscrew) locked until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature ( °C ) : 19.3-20.1

Location	Temperature Rise (K)	Limit (K)
Battery surface	0.8	33
Enclosure (near PCB)	0.7	50
Enclosure (near motor for the left front airscrew)	0.3	50
Enclosure (near motor for the right front airscrew)	0.3	50
Enclosure (near motor for the right rear airscrew)	0.8	50
Enclosure (near motor for the left rear airscrew)	0.3	50
Enclosure (near LED)	0.4	50

9.6 The aircraft was operated by 1 x 3.7V 500mAh "Li-Poly" size rechargeable battery with accessible moving parts (left rear airscrew) locked until steady conditions were established. The maximum temperature rises were recorded as follows:

Ambient temperature ( °C ) : 19.5-20.1

Location	Temperature Rise (K)	Limit (K)
Battery surface	1.0	33
Enclosure (near PCB)	1.0	50
Enclosure (near motor for the left front airscrew)	0.7	50
Enclosure (near motor for the right front airscrew)	0.7	50
Enclosure (near motor for the right rear airscrew)	0.8	50
Enclosure (near motor for the left rear airscrew)	1.4	50
Enclosure (near LED)	0.7	50

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

Location / Part

Result / Observation

The battery compartment cover  
The battery compartment

No flame, no molten drop  
No flame, no molten drop

### Sample Photo:

Submitted samples



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### Submitted samples with electric function



SGS authenticate the photo on original report only

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