LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

N/A = Not Applicable

1. Name of cell / battery
Polymer Lithium-ion battery 3.7V, 380 mAh, 1.406 Wh

2. Manufacturer of cell / battery	
Name	HuiZhou Haopinying Electronic Technology Co., LTD
Address	Caifu Industrial Park, Changbu Village, Xinxu Town, Huizhou City, Guangdong, China
Phone	+86-15768615304
Email	1322871822@qq.com
Website	www.haopinwin.com

3. Test laboratory of cell / battery	
Name	Dongguan ZRLK Testing Technology Co., Ltd.
Address	Building D, No.2, Jinyuyuan Mansion, No.18, Industrial West Road, Songshan Lake High-tech Industrial Development Zone, Dongguan, Guangdong, China
Phone	+86-769-26621775
Email	Marketing@zrlklab.com
Website	www.zrlklab.com

4. ID-number and date			
Unique test report identification number	ZKS211100492-1	Date of test report	2021-12-18

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "•"			
○	Lithium ion cell	Lithium metal cell	○
X	Lithium ion battery	Lithium metal battery	○
○	Lithium hybrid battery		

6. Parameters	Cell	Battery
Mass in gram (g):		12,0
Lithium ion: Indicate watt-hour rating (Wh):		1,406
Lithium metal: Indicate lithium metal content in gram (g):		
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):		g Wh

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IN ACCORDANCE WITH SUB-SECTION 38.3
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Name of cell/battery (taken from field 1)
Polymer Lithium-ion battery 3.7V, 380 mAh, 1.406 Wh

7. Physical description of cell / battery
Prismatic

8. Model numbers
23810 Pocket Drone

TESTS AND RESULTS

9. List of tests conducted and results - Mark N/A, pass or fail with an "•"	N/A	pass	fail
T1 - Altitude simulation	○	○	○
T2 - Thermal Test	○	○	○
T3 - Vibration	○	○	○
T4 - Shock	○	○	○
T5 - External Short Circuit	○	○	○
T6 - Impact / Crush	○	○	○
T7 - Overcharge	○	○	○
T8 - Forced Discharge	○	○	○
for all above	○	(X)	○
	○	○	○

10. Reference to assembled battery testing requirements		
	N/A	

11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto

LITHIUM BATTERY SERVICE

LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3
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Name of cell/battery (taken from field 1)
Polymer Lithium-ion battery 3.7V, 380 mAh, 1.406 Wh

ADDITIONAL SUPPLIER INQUIRY

12. Quality management system for manufacturing cells / batteries Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?	X	YES	NO	
13. Are the following parameters exceeded? Lithium ion cell: more than 20 Wh Lithium ion battery: more than 100 Wh Lithium metal cell: more than 1 g Lithium Lithium metal battery: more than 2 g Lithium Lithium hybrid Battery: more than 1,5 g Lithium and/or more than 10 Wh		YES	NO	X

Check point 14 – 16 need to be answered when 13 has been ticked "YES":					
14. Does each cell / battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?			YES	NO	
15. Is each cell / battery equipped with an effective means of preventing external short circuits?			YES	NO	
16. Is each battery containing cells or series of cells connected in parallel equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.)?		N/A	YES	NO	

17. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells/batteries and lithium polymer cells/batteries			
State of Charge (SoC) max. 30 %	YES	NO	

CELLS/BATTERIES INSTALLED IN EQUIPMENT

18. Check point 18 needs to be answered when the cells / batteries are installed in articles:					
18.a) Only button cells enclosed?			YES	NO	X
18.b) Number of enclosed cells (other than button cells)/batteries per equipment					
	Enclosed cells per equipment		Enclosed batteries per equipment	1	
When the equipment is intentionally active/switched on during transport e.g. data loggers:					
18.c) Confirmation that no dangerous amount of heat is emitted from the equipment	X	N/A	YES	NO	
18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	X	N/A	YES	NO	

19. Place, Date	**20. Title, Surname, First name**	**21. Company stamp and signature**
Bünde, 2023.06.29	Schreiber, Christian Manager Product Safety & Quality Assurance	Revell GmbH Henschelstr. 20-30 32257 Bünde Tel.: (+49/0) 5223 965-0

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