

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	
Lithium-ion Polymer Battery	

2. Manufacturer of cell / battery	
Name	Springpower Technology (Shenzhen) CO.,Ltd.
Address	101,No.2, Chaoshun Industrial Zone, Fumin Community, Fucheng Street, Longhu
Phone	+852-3565-0188
Email	ljcheng@highpowertech.com
Website	http://highpower.batterykey.com/

3. Test laboratory of cell / battery	
Name	Vkan Certification & Testing Co., Ltd.
Address	No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, 510663, P. R. Ch
Phone	+86-20-32368062
Email	cs@cvc.org.cn
Website	http://www.cvc.org.cn

4. ID-number and date			
Unique test report identification number	RZUN2019-0206	Date of test report	2019.02.19

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "•"			
<input type="radio"/>	Lithium ion cell	Lithium metal cell	<input type="radio"/>
<input checked="" type="radio"/>	Lithium ion battery	Lithium metal battery	<input type="radio"/>
<input type="radio"/>	Lithium hybrid battery		

6. Parameters	Cell	Battery
Mass in gram (g):		30
Lithium ion: Indicate watt-hour rating (Wh):	5.92	5.92
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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Name of cell/battery (taken from field 1)

Lithium-ion Polymer Battery

7. Physical description of cell / battery

Single cell Battery

8. Model numbers

943648-1600mAh

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	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T2 - Thermal Test	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T3 - Vibration	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T4 - Shock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T5 - External Short Circuit	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T6 - Impact / Crush	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T7 - Overcharge	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T8 - Forced Discharge	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. Reference to assembled battery testing requirements

ST/SG/AC.10/11/Rev.6/Amend.1

N/A

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

ST/SG/AC.10/11/Rev.6/Amend.1

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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?		<input checked="" type="radio"/>	YES	NO	<input type="radio"/>
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		<input type="radio"/>	YES	NO	<input checked="" type="radio"/>
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?		<input type="radio"/>	YES	NO	<input type="radio"/>
15. Is each cell / battery equipped with an effective means of preventing external short circuits?		<input type="radio"/>	YES	NO	<input type="radio"/>
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.)?		<input type="radio"/>	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 %		<input checked="" type="radio"/>	YES	NO	<input type="radio"/>

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?		<input type="radio"/>	YES	NO	<input checked="" type="radio"/>
18.b) Number of enclosed cells (other than button cells)/batteries per equipment					
1	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		<input type="radio"/>	N/A	<input checked="" type="radio"/>	YES
18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160		<input type="radio"/>	N/A	<input type="radio"/>	YES
19. Place, Date		20. Title, Surname, First name		21. Company stamp and signature	
12.05.2020		Certification engineer Kelvin Deng			