

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			
Li-ion battery			
2. Manufacturer of cell / battery			
Name	Zhongshan Tianmao Battery Co., Ltd.		
Address	No. 208, Qianjin 1st Road, Xin Qianjin Village, Tan Zhou Town, ZhongShan City		
Phone	0760-86289888		
Email	Depot082@zstmb.com		
Website	http://www.zstmb.com/		
3. Test laboratory of cell / battery			
Name	Shanghai Research Institute of Chemical Industry Testing Co., Ltd.		
Address	No. 345 East Yunling Road, Putuo, Shanghai, China 200062		
Phone	86-21-31765555		
Email	battery@ghs.cn		
Website	www.ghs.cn		
4. ID-number and date			
Unique test report identification number	1120070157	Date of test report	2020-08-07
DESCRIPTION OF CELL / BATTERY			
5. Mark the type of cell/battery with an "•"			
<input type="radio"/>	Lithium ion cell	<input type="radio"/>	Lithium metal cell
<input checked="" type="radio"/>	Lithium ion battery	<input type="radio"/>	Lithium metal battery
<input type="radio"/>	Lithium hybrid battery		
6. Parameters		Cell	Battery
Mass in gram (g):			225
Lithium ion: Indicate watt-hour rating (Wh):			4.1
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)

Li-ion battery

7. Physical description of cell / battery

Prismatic

8. Model numbers

BP1709/A

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

N/A

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

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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?



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

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



15. Is each cell / battery equipped with an effective means of preventing external short circuits?



YES



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



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



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



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



N/A



YES



NO

19. Place, Date

20. Title, Surname, First name

21. Company stamp and signature

Hong Kong
2021/4/14

Quality Manager
TSANG, Daniel



