

LITHIUM 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/Description of battery	
Primary lithium manganese dioxide coin cell 3V	

1a. Name/Description of the cells inside the battery	
Lithium Metal Battery	

The test summary of the cells inside the battery must either be presented or under checkpoint 9 and 9a it must be confirmed that the UN 38.3 test summary for the cells is available.

2. Manufacturer of battery	
Name	Power Glory Battery Tech (ShenZhen) Co., Ltd
Address	Room 306, Building 4, Row 1, West District, Heshuikou New Village, Heshuikou C
Phone	(86) 0755-27543061
Email	sales@szlijia.com
Website	www.szlijia.com

2a. Manufacturer of the equipment (if the battery is contained in equipment)	
Name	Plustrace Technology Co.,Ltd
Address	Building 2, Jinshui Rd, 107 Fudao, Longgangxincheng, Zhengzhou, 450018, China
Phone	0086 371 61317899
Email	info@plustrace.com
Website	www.plustrace.com

3. Test laboratory of battery	
Name	Guangzhou MCM Certification and Testing Co., Ltd
Address	Guangzhou MCM Certification and Testing Co., Ltd 1 F No.13, Zhong San Section
Phone	+86 20 34777662
Email	markmiao@mcmtek.com
Website	www.mcmtek.com

4. ID-number and date			
Unique test report identification number	RZUN2012-0141	Date of test report	Jan 13 2012



有限公司
CO., LTD

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Name/Description of battery (taken from field 1)
Primary lithium manganese dioxide c

DESCRIPTION OF BATTERY

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

6. Parameters	
Mass in gram (g):	6.3
Lithium ion: Indicate watt-hour rating (Wh):	
Lithium metal: Indicate lithium metal content in gram (g):	0.165
Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):	g Wh

7. Physical description of battery
Diameter : 24.5mm X Thickness : 5.0mm Color : Silvery

8. Model numbers
CR2450

子科技
INOLOGY

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 - for cylindrical cells having a diameter of at least 18 mm See check point 1a and 9a.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm. See check point 1a and 9a.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
T7 - Overcharge	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
T8 - Forced Discharge, only valid for cells. See check point 1a and 9a.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



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<p>9a. UN 38.3 Test Confirmation for the Cells inside the battery When no separate document for the cells is provided, this confirms that the cells inside the battery (see checkpoint 1.a.) have successfully passed the UN 38.3 test. In this case under checkpoint 9 the T.6 and T.8 must be marked as „passed“ and here under 9.a. „Cell UN 38.3 Test confirmed“ needs to be ticked.</p>	<input checked="" type="radio"/> Cell UN 38.3 Test confirmed	<input type="radio"/> Cell UN 38.3 Test NOT confirmed
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<p>10. Reference to assembled battery testing requirements</p>		<p>N/A</p>
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<p>11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto</p>		
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ADDITIONAL SUPPLIER INQUIRY

<p>12. Quality management system for manufacturing batteries Does the manufacturer of the battery manufacture the products based on a documented quality management system according to transport regulations?</p>	<input checked="" type="radio"/> YES	<input type="radio"/> NO
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<p>13. Are the following parameters exceeded? Lithium ion battery: more than 100 Wh Lithium metal battery: more than 2 g Lithium Lithium hybrid Battery: more than 1,5 g Lithium and/or more than 10 Wh</p>	<input type="radio"/> YES	<input checked="" type="radio"/> NO
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Check point 14 – 16 need to be answered when 13 has been ticked "YES":

<p>14. Does each battery incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?</p>	<input type="radio"/> YES	<input checked="" type="radio"/> NO
<p>15. Is each battery equipped with an effective means of preventing external short circuits?</p>	<input type="radio"/> YES	<input checked="" type="radio"/> NO
<p>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.)?</p>	<input checked="" type="radio"/> N/A	<input type="radio"/> YES <input type="radio"/> NO

17. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion batteries and lithium polymer batteries

<p>State of Charge (SoC) max. 30 %</p>	<input checked="" type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO
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BATTERIES INSTALLED IN EQUIPMENT

18. Check point 18 needs to be answered when the batteries are installed in articles:				
18.a) Only button cells enclosed?	<input checked="" type="radio"/>	YES	NO	<input type="radio"/>
18.b) Number of enclosed batteries per equipment	500PCS			
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 NO <input type="radio"/>
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 checked="" type="radio"/>	YES NO <input type="radio"/>

19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature
12-01-2021	QC Manager :Wang Can	<i>Wang Can</i>

河南省立光电子科技有限公司
PLUSTRACE TECHNOLOGY CO., LTD

