

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
BAK - B18650CA

2. Manufacturer of cell / battery	
Name	Wellcare Co. Ltd
Address	16F, 738, Jhong Zheng Rd, JhongHe District, 235 New Taipei City, Taiwan
Phone	N/A
Email	N/A
Website	N/A

3. Test laboratory of cell / battery	
Name	TÜV Süd
Address	Building 12&13, Zhiheng Wisdomland, Business Park, Road 2, Nanshan District 518052, Shenzhen
Phone	+86 755 8828 6998
Email	N/A
Website	www.tuv-sud.cn

4. ID-number and date			
Unique test report identification number	68.280.14.277.01	Date of test report	2014-09-24

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "x"			
<input checked="" type="radio"/>	Lithium ion cell	Lithium metal cell	<input type="radio"/>
<input 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):	43.4g	43.4g
Lithium ion: Indicate watt-hour rating (Wh):		8.3Wh
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)

BAK - B18650CA

7. Physical description of cell / battery

Li-Ion

8. Model numbers

BAK - B18650CA

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 type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input 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

N/A

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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 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 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 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 type="radio"/>
18.b) Number of enclosed cells (other than button cells)/batteries per equipment					
Enclosed cells per equipment		Enclosed batteries per equipment			
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	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		<input type="radio"/>	N/A	YES	NO
19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature			
Ulm, 2020-05-08	R&D Director, Meternek Werner	i.V. 			