

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			
Rechargeable Lithium-ion Battery Pack			
2. Manufacturer of cell / battery			
Name	Darfon Electronics (Suzhou) Co.,LTD.		
Address	99 Zhuyuan road, New District, Suzhou, China		
Phone	0512-88188800		
Email	queen.wang@darfon.com.cn		
Website	www.darfon.com.cn		
3. Test laboratory of cell / battery			
Name	Darfon Electronics (Suzhou) Co.,LTD.		
Address	99 Zhuyuan road, New District, Suzhou, China		
Phone	0512-88188800		
Email	angel.kong@darfon.com.cn		
Website	www.darfon.com.cn		
4. ID-number and date			
Unique test report identification number	HBN170901A	Date of test report	9-21-2017

DESCRIPTION OF CELL / BATTERY

5. Mark the type of cell/battery with an "●"			
☐	Lithium ion cell	Lithium metal cell	☐
☒	Lithium ion battery	Lithium metal battery	☐
☐	Lithium hybrid battery		
6. Parameters		Cell	Battery
Mass in gram (g):			215
Lithium ion: Indicate watt-hour rating (Wh):			21,6
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)
Rechargeable Lithium-ion Batterie

7. Physical description of cell / battery
Rechargeable Lithium-ion Batterie Pack

8. Model numbers
204.101

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	☐	☒	☐
	☐	☐	☐
	☐	☐	☐

10. Reference to assembled battery testing requirements	N/A	☒
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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	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	☒
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
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
19. Place, Date	20. Title, Surname, First name	21. Company stamp and signature			
2019-12-20	Johannes Hofmann				

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