LITHIUM CELL 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 cell
PowerBank

2. Manufacturer of cell	
Name	[redacted]
Address	
Phone	
Email	
Website	

2a. Manufacturer of the equipment (if the cell is contained in equipment)	
Name	
Address	
Phone	
Email	
Website	

3. Test laboratory of cell	
Name	ShenzhenTCTTestingTechnologyCo.,Ltd.
Address	1B/F.,Building1,YibaolaiIndustrialPark,Qiaotou,Fuyong,BaoanDistrict,Shenzhen,G
Phone	+86-755-27673339
Email	tom@tct-lab.com
Website	

4. ID-number and date			
Unique test report identification number	TCT181210B050	Date of test report	2019.01.11

DESCRIPTION OF CELL

5. Mark the type of cell with an "●"			
●	Lithium ion cell	Lithium metal cell	○

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Name/Description of cell (taken from field 1)
PowerBank

6. Parameters	Cell
Mass in gram (g):	M<1g
Lithium ion: Indicate watt-hour rating (Wh):	37wh
Lithium metal: Indicate lithium metal content in gram (g):	

7. Physical description of cell
Prismatic

8. Model numbers
S10000 S10000-C

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 - for cylindrical cells having a diameter of at least 18 mm	○	●	○
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm	○	●	○
T7 - Overcharge	○	●	○
T8 - Forced Discharge	○	●	○
	○	○	○
	○	○	○

10. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto
UNITEDNATIONS"RecommendationsontheTRANSPORTOFDANGEROUSGOODSManualofTestsandCriteria"SixthrevisededitionAmendment1(ST/SG/AC.10/11/Rev.6/Amend.1)

LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

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OF MANUAL OF TESTS AND CRITERIA

Name/Description of cell (taken from field 1)
PowerBank

ADDITIONAL SUPPLIER INQUIRY

11. Quality management system for manufacturing cells Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?	●	YES	NO	○

12. Are the following parameters exceeded? Lithium ion cell: more than 20 Wh Lithium metal cell: more than 1 g Lithium	○	YES	NO	●

Check point 13 – 15 need to be answered when 12 has been ticked "YES":				
13. Does each cell incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?	○	YES	NO	○
14. Is each cell equipped with an effective means of preventing external short circuits?	○	YES	NO	○
15. 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.)	Not relevant for cells		N/A	○

16. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells and lithium polymer cells						
State of Charge (SoC) max. 30 %	○	N/A	●	YES	NO	○

CELLS INSTALLED IN EQUIPMENT

17. Check point 17 needs to be answered when the cells are installed in articles:						
17.a) Only button cells enclosed?			○	YES	NO	○
17.b) Number of enclosed cells (other than button cells) per equipment						
When the equipment is intentionally active/switched on during transport e.g. data loggers:						
17.c) Confirmation that no dangerous amount of heat is emitted from the equipment	○	N/A	○	YES	NO	○
17.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	○

18. Place, Date	**19. Title, Surname, First name**	**20. Company stamp and signature**
2019. 12. 20	AllenQin	