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	PORTAPOWER (CHINA) LIMITED
Address	Flat 1003, 10/F Hopeful Factory Centre, 10-16 Wo Shing Street, Fotan, N.T. Hong
Phone	+852-26876323
Email	porta@portapower.com.hk
Website	www.portapower.com

3. Test laboratory of cell / battery	
Name	Guangzhou Zhanhui Electronics Co., Ltd
Address	Shinan Road, Guantan Village,Dongchong Town, Nansha District,Guangzhou
Phone	020-66804228
Email	shengxiu.ding@portapower.com.cn
Website	www.portapower.com

4. ID-number and date			
Unique test report identification number	PPL-UN-20191218002	Date of test report	2019-12-18

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):		17
Lithium ion: Indicate watt-hour rating (Wh):		1.5
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

LITHIUM BATTERY SERVICE

LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

Name of cell/battery (taken from field 1)
Li-ion Battery

7. **Physical description of cell / battery**
Li-ion 3V 500mAh/1.5Wh Black plastic Case

8. **Model numbers**
FR123U.03F

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	

11. **Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto**
ST/SG/AC.10/11/REV.6/Amend.1/Section 38.3

LITHIUM BATTERY SERVICE

LITHIUM CELL/BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

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Name of cell/battery (taken from field 1)
Li-ion Battery

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		
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
2019-12-18	Engineer,Justin Ding	