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-20241127002	Date of test report	2024-11-27

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):		1980
Lithium ion: Indicate watt-hour rating (Wh):		299
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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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 36V 8.3Ah/299Wh Black plastic Case

8. **Model numbers**
YL-MHX1-HS103B.819

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.7/Amend.1/Section 38.3

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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

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**
2024-11-27	Engineer,Justin Ding	

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