	Lithium Cell/Battery Test Summary	Revision:	01
	In accordance with sub-section 38.3 of manual of tests and criteria	Issue:	October 2024
		Page:	1 / 2

GENERAL INFORMATION

1. Product identification	
Hama item number	00221753
Product description	TWS BT HP Freedom Light II white

2. Manufacturer of cell/battery/product	
Name	Hama GmbH & Co KG
Address	Adolf-Thomas-Str. 10, 86653 Monheim/Bayern
Phone	+49 (0) 9091 502-0
E-Mail	qs_power.batt@hama.de
Website	www.hama.com

3. Test laboratory of cell/battery/product	
Name	Shenzhen Tiansu Calibration and Testing Co.,Ltd.
Address	B/1,4, NO.2 Jinlong Road, Longgang District, Shenzhen, China
Phone	+(86)-755-89457984
E-Mail	tsjc@tiansu.org
Website	www.tiansu.org

4. Test report ID-number and date			
Unique test report identification number	TSZ24030411-P01-R01	Date of test report	2024-04-07


DESCRIPTION OF CELL/BATTERY

5. Type of cell/battery			
<input checked="" type="checkbox"/>	Lithium ion cell	Lithium metal cell	<input type="checkbox"/>
<input type="checkbox"/>	Lithium ion battery	Lithium metal battery	<input type="checkbox"/>

6. Parameters		
	Cell	Battery
Mass in gram [g]	6.04	-
Lithium ion: Indicate watt-hour rating [Wh]	1.295	-
Lithium metal: Indicate lithium metal content in gram [g]	-	-

7. Physical description of cell/battery	
Physical identification (size, shape or color)	pouch cell

8. Model numbers
681245

	Lithium Cell/Battery Test Summary	Revision:	01
	In accordance with sub-section 38.3 of manual of tests and criteria	Issue:	October 2024
		Page:	2 / 2


TESTS AND RESULTS

9. List of tests conducted and results			
Testing requirements acc. UN 38.3	N/A	Pass	Fail
T1 – Altitude simulation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T2 – Thermal test	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T3 – Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T4 – Shock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T5 – External short circuit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T6 – Impact/crush	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
T7 – Overcharge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T8 – Forced discharge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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
Revision 7.1

12. Quality management system for manufacturing of batteries
The manufacture of the cell/battery is in accordance with the documented quality management system as required by the regulations.

13. Place, Date	14. Title, Surname, First name	15. Company stamp and signature
Monheim, Juni 10, 2025	Head of QC Department Berghammer Stephan	 Hama GmbH & Co KG Adolf-Thomas-Straße 10 88653 Monheim / Germany