Lithium battery test summary and supplier inquiry in accordance with sub-section 38.3 of manual of tests and criteria	**Datum**	21.04.2021
	Revision	1.0
Test report no.: 1-6648/18-04-02-A	**Seite**	1

1	NAME / DESCRIPTION OF THE BATTERY
	BP-LFP-1025 LiFePO4 battery pack

1a	NAME / DESCRIPTION OF THE CELLS INSIDE THE BATTERY
	ANR26650M1-B LiFePO4 cells

The test summary of the cells inside the battery must either be presented or under checkpoint 9 and 9a it must be confirmed that the UN 38.3 test summary for the cells is available.

2	MANUFACTURER OF THE BATTERY	
	Name	Bicker Elektronik GmbH
	Address	Ludwig-Auer-Straße 23, 86609 Donauwörth
	Phone	+49 (0)906 / 70595-0
	E-Mail	info@bicker.de
	Website	https://www.bicker.de

2a	MANUFACTURER OF THE EQUIPMENT (*if the battery is contained in equipment*)	
	Name	
	Address	
	Phone	
	E-Mail	
	Website	

3	TEST LABORATORY OF BATTERY	
	Name	CTC advanced GmbH
	Address	Untertürkheimer Str. 6-10, 66117 Saarbrücken
	Phone	+49 (0)681 / 598-0
	E-Mail	mail@ctcadvanced.com
	Website	www.ctcadvanced.com

4	ID-NUMBER AND DATE	
	Unique test report identification number	1-6648/18-04-02-A
	Date of test report	2018-10-10

DESCRIPTION OF BATTERY

5	MARK THE TYPE OF BATTERY WITH „✓“	
	Lithium ion battery	✓
	Lithium metal battery	
	Lithium hybrid battery	

6	PARAMETERS	
	Mass in gram (g)	350
	Lithium ion: Indicate lithium watt-hour rating (Wh)	25
	Lithium metal: Indicate lithium metal content in gram (g)	
	Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh)	

7	PHYSICAL DESCRIPTION OF BATTERY
	91 mm x 66 mm x 30 mm / 3IFPR26/65-1

8	MODEL NUMBER
	BP-LFP-1025

TESTS AND RESULTS

9	LIST OF TESTS CONDUCTED AND REDULT – MARK N/A, PASS OF 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. See checkpoint 1a and 9a.	✓		
T6	Crush – for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm. See checkpoint 1a and 9a.	✓		
T7	Overcharge		✓	
T8	Forced Discharge, only valid for cells. See check point 1a and 9a.	✓		

9a	UN 38.3 TEST CONFIRMATION FOR THE CELLS INSIDE THE BATTERY			
	When no separate document for the cells is provided, this confirms that the cells inside the battery (see checkpoint 1a) have successfully passed the UN 38.3 test. In this case, under checkpoint 9 the T6 and T8 have to be marked as “passed” and here, under 9a, “Cell UN 38.3 Test confirmed”.			
	✓	Cell UN 38.3 Test confirmed	Cell UN 38.3 Test NOT confirmed	

10	REFERENCE TO ASSEMBLED BATTERY TESTING REQUIREMENTS		
		N/A	

11	REFERENCE TO THE REVISED EDITION OF THE MANUAL OF TESTS AND CRITERIA USED TO AMENDMENTS THERETO
	UN Manual of Tests and Criteria, Part III, Section 38.3, lithium metal and lithium ion batteries (UN ST/SG/AC.10/11/Rev.6, Amendment 1)

Donauwörth, 21.04.2021	
Ort, Datum	**Thomas Böhmer** Technischer Leiter