

LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

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

Name/Description of cell / model no. of Product	
Li ion Battery	BT-X66

Manufacturer of cell

Name	Dongguan Zhechang Industry Co.. Ltd.
Address	Building 2, No.18, Jiangnan West Street, Xiagang, Chang'an Town, Dongguan City, Guangdong Province
Phone	0769-85348900
E-Mail	
Website	

Manufacturer

Name	Technaxx Deutschland GmbH & Co. KG
Address	Konrad-Zuse-Ring 16-18, 61137 Schöneck
Phone	+49 [69] 90 47552 0
E-Mail	Zentrale@technaxx.de
Website	https://www.technaxx.de/

Test laboratory of cell

Name	Lionaces Technology Co., Ltd.
Address	301, Building B6, Junfeng industrial Zone, Yonghe Road, Heping Community, Fuhai Street, Baoan, Shenzhen, Guangdong, China
Phone	0755-28280690
E-Mail	service@lionaces.com
Website	www.lionaces.com

ID-number and date

Unique test report identification number	LA2022B1193006U
Date of test report	2022-12-29

DESCRIPTION OF CELL (Mark with an "X")

Lithium ion cell	X
Lithium metal cell	

Parameters

Mass in gram (g):	43.5
Lithium ion: Indicate watt-hour rating (Wh):	3.7V
Lithium metal: Indicate lithium metal content in gram (g):	

Physical description of cell

Li- ion Battery

Model numbers

ZEC 18650 – 1S1P

TESTS AND RESULTS

List of tests conducted and results - Mark N/A, pass or fail with an "X"	N/A	Pass	Fail
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T1 - Altitude simulation		X	
T2 - Thermal Test		X	
T3 – Vibration		X	
T4 – Shock		X	
T5 - External Short Circuit		X	
T6 - Impact - for cylindrical cells having a diameter of at least 18 mm		X	
T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm		X	
T7 – Overcharge		X	
T8 - Forced Discharge		X	

Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto

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ADDITIONAL SUPPLIER INQUIRY

Mark Yes or no with an "X"	Yes	No
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?	X	
Are the following parameters exceeded? Lithium ion cell: more than 20 Wh Lithium metal cell: more than 1 g Lithium		X

Check point 13 – 15 need to be answered when 12 has been ticked "YES":

Mark Yes or no with an "X"	Yes	No
Does each cell incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage?		
Is each cell equipped with an effective means of preventing external short circuits?		
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		

Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells and lithium polymer cells

State of Charge (SoC) max. 30 %	X	
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CELLS INSTALLED IN EQUIPMENT

Check point 17 needs to be answered when the cells are installed in articles: Mark N/A, pass or fail with an "X"	N/A	Pass	Fail
17c) Only button cells enclosed?	X		
17b) Number of enclosed cells (other than button cells) per equipment			
When the equipment is intentionally active/switched on during transport e.g. data loggers:			
17c) Confirmation that no dangerous amount of heat is emitted from the equipment	X		
17d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160	X		

Please mark the correct column with an X		
Single Cell or Battery	Build in Cell/ Battery	Over 100Wh

LITHIUM - METALL  Einzel Zelle / Batterie	LITHIUM - IONEN  Zelle / Batterie in Ausrüstungen	LITHIUM - IONEN BATTERIE mit MEHR als 100 Wh 
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Place, Date	Signature	Company stamp and Signature
2024-02-07	CEO Pekcan Pascal 	Technaxx Deutschland GmbH & Co.KG Konrad-Zuse-Ring 16-18 61137 Schöneck-Kilianstädten Fon +49 (0)6187 / 200 92-0 • Fax -16