

# 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 n. o. of Product	
451923J	TX-SW7HR

## Manufacturer of cell

Name	Yitian New Energy (Huizhou) Co., Ltd.
Address	On the right side of the elevator exit on the 3rd floor of the No. 4 factory building, District 1, Daxin Group, Shuguang Avenue, Chenjiang Street Office, Zhongkai High-tech Zone, Huizhou City
Phone	
E-Mail	
Website	

## Manufacturer

Name	Technaxx Deutschland GmbH & Co. KG
Address	Kruppstraße 105, 60388 Frankfurt am Main
Phone	+49 [69] 90 47552 0
E-Mail	Zentrale@technaxx.de
Website	http://www.technaxx.de/

## Test laboratory of cell

Name	Shenzhen Beihang Testing Co., Ltd.
Address	Room 202, 2/F, Building F, HaoWei Industrial Park, QingSong West Road, PingShan District, Shenzhen, Guangdong, China/518000
Phone	
E-Mail	
Website	http://www.hc-stc.net

## ID-number and date

Unique test report identification number	RSZBHST210105025
Date of test report	2021-01-18

## DESCRIPTION OF CELL ( Mark with an "X" )

Lithium ion cell	X
Lithium metal cell	

## Parameters

Mass in gram (g):	3.5
Lithium ion: Indicate watt-hour rating (Wh):	0.703Wh
Lithium metal: Indicate lithium metal content in gram (g):	3.8

## Physical description of cell

Li-ion Battery
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## Model numbers

451923J
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## TESTS AND RESULTS

List of tests conducted and results - Mark N/A, pass or fail with an "X"	N/A	Pass	Fail
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	

**ADDITIONAL SUPPLIER INQUIRY**

Mark Yes or no with an "X"	Yes	No
<b>Quality management system for manufacturing cells</b> Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations?	X	
<b>Are the following parameters exceeded?</b> 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?	X	
Is each cell equipped with an effective means of preventing external short circuits?	X	
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.) <b>Not relevant for cells</b>		




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

State of Charge (SoC) max. 30 %		
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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	X		
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**

	X	
Single Cell or Battery	Build in Cell/ Battery	Over 100Wh
		

Place, Date	Signature	Company stamp and Signature
Frankfurt, 22.06.2021	