

LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

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

<i>Name/Description of cell / model n o. of Product</i>	
Lithium polymer battery	TX-SW3HR

Manufacturer of cell

Name	ZHONGSHAN ZHONGWANGD NEW ENERGY TECHNOLOGY CO.,LTD
Address	1-2/F,.No.3 Factory Building, Dongya Area,Dache Industrial Park,Nanlang Town,Zhongshan City, Guangdong Province
Phone	
E-Mail	
Website	

Manufacturer of the equipment (if the cell is contained in equipment)

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 BALUN Technology Co.,Ltd
Address	Block B,1st FL, Baisha Science and Technology Park,Shahe Xi Road,Nanshan District, Shenzhen,518055, P.R.China
Phone	
E-Mail	
Website	

ID-number and date

Unique test report identification number	BL-SZ1920142-301
Date of test report	2019-03-05

DESCRIPTION OF CELL (Mark with an "X")

Lithium ion cell	X
Lithium metal cell	

Parameters

Mass in gram (g):	7.5
Lithium ion: Indicate watt-hour rating (Wh):	1.748
Lithium metal: Indicate lithium metal content in gram (g):	

Physical description of cell

Lithium polymer battery

Model numbers

ZWD532626V

TESTS AND RESULTS

<i>List of tests conducted and results</i> - 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	

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

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ADDITIONAL SUPPLIER INQUIRY

<i>Mark Yes or no with an "X"</i>	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":

<i>Mark Yes or no with an "X"</i>	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.) Not relevant for cells	
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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			
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	Title, Surname, First Name CEO Pekcan, Pascal	Company stamp
Frankfurt, 11/12/2019	