

# 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</i>

## *Manufacturer of cell*

Name	Dongguan HuanYuYuan Technology Co., Ltd.
Address	Room 101, No.7 of Banhubei 5 <sup>th</sup> Street, HuangJiang Town, Dongguan GuangDong China
Phone	0769-83531866
E-Mail	1260350392@qq.com
Website	www.hyybattery.net

## *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	www.technaxx.de

## *Test laboratory of cell*

Name	Shenzhen Lionaces Technology Co., Ltd.
Address	307-310, Block 1A, Zhida Industrial Park, No.4 Longping West Road, Longcheng Street, Longgang District, Shenzhen, Guangdong, China
Phone	0755-28280690
E-Mail	service@lionaces.com
Website	www.lionaces.com

## *ID-number and date*

Unique test report identification number	LA2019B0447001U
Date of test report	2020-01-09

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

Lithium ion cell	X
Lithium metal cell	

## *Parameters*

Mass in gram (g):	15.9g
Lithium ion: Indicate watt-hour rating (Wh):	3.7v
Lithium metal: Indicate lithium metal content in gram (g):	

## *Physical description of cell*

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## *Model numbers*

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### 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

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	X	


equipped with effective means as necessary to prevent dangerous reverse current flow (e.g. diodes, fuses, etc.) <i>Not relevant for cells</i>	
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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 %	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	

Place, Date	Pascal Pekcan	Company stamp
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