

# LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

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

Name/Description of cell

## Manufacturer of cell

Name	Dongguan HuanYuYuan Technology Co., Ltd.
Address	Block 72C Dongyuan Industrial Park No.28 Beihuan Road West Longteng Area Shiyan town Baoan District Shenzhen 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 NCT Testing Technology Co., Ltd.
Address	1/F No.B Buliding Mianshang Younger Pioneer Park Hangcheng Road Gushu Xixiang Street Baoan District Shenzhen Guangdong China
Phone	0755-27790922
E-Mail	service@nct-testing.com
Website	www.nct-testing.com

## ID-number and date

Unique test report identification number	NCT19016211XB1-1
Date of test report	2019-04-25

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

Lithium ion cell	X
Lithium metal cell	

## Parameters

Mass in gram (g):	31.8g
Lithium ion: Indicate watt-hour rating (Wh):	7.4v
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

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	

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 incorporate 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>	X	

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	
<b>Single Cell or Battery</b>	<b>Build in Cell/ Battery</b>	<b>Over 100Wh</b>	
			
	X		

Place, Date	Pascal Pekcan	Company stamp
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