

# 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 |        |
|--|--------|
|  | LX-023 |

## Manufacturer of cell

|         |  |
|---------|--|
| Name    | Dong Guan City Ling Li Battery Co., Ltd.   |
| Address | No.50 Xianchong industrial road, wanjiang street Dongguan city<br>Guangdong Province China |
| Phone   | 0769-22271791  |
| E-Mail  | 1581904867@qq.com  |

## 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    | Pony Testing International Group   |
| Address | 1/F., Buliding A2 Jun Feng ZhongCheng ZhiZao Innovation Park HePing<br>Peace Community Fuhai Road, Baoan District Shenzhen Guangdong China |
| Phone   | 86-755-26050909  |
| Website | www.ponytest.com   |

## ID-number and date

|  |                  |
|--|------------------|
| Unique test report identification number | MOIKBNFT13294716 |
| Date of test report                      | 2020-01-09       |

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

|                    |  |
|--------------------|--|
| Lithium ion cell   |  |
| Lithium metal cell |  |

## Parameters

|  |        |
|--|--------|
| Mass in gram (g):  | 2g     |
| Lithium ion: Indicate watt-hour rating (Wh):               | 1.11Wh |
| Lithium metal: Indicate lithium metal content in gram (g): |        |

## Physical description of cell

|                         |
|-------------------------|
| Lonlife Carbon Batttery |
|-------------------------|

## Model numbers

|             |
|-------------|
| AA R6P 1.5V |
|-------------|

## TESTS AND RESULTS

| List of tests conducted and results<br>- 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><br>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><br>Lithium ion cell: more than 20 Wh<br>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 |  |
|---------------------------------|---|--|

## 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 | Pascal Pekcan   | Company stamp   |
| 2020-07-01  |  | Technaxx Deutschland<br>GmbH & Co. KG<br>Kruppstr. 105<br>60388 Frankfurt a.M.<br>Fon +49(0)69/90 47 55 2-0 - Fax -16 |