LITHIUM BATTERY TEST SUMMARY AND SUPPLIER INQUIRY
IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

1. Name/Description of battery

Li-ion batterie 17-21BE-M040/0000

1a. Name/Description of the cells inside the battery

Lithium-ion Cell Samsung SDE INR18650-15L

The test summary of the cells inside the battery must either be presented or under checkpoint 9 and 9a it must be confirmed that the UN 38.3 test summary for the cells is available.

2. Manufacturer of battery

<table>
<thead>
<tr>
<th>Name</th>
<th>CINO Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Eastern Science Industrial Park, 18F., No. 100, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City, 22102, Taiwan, R.O.C.</td>
</tr>
<tr>
<td>Phone</td>
<td>886-2-26962559</td>
</tr>
<tr>
<td>Email</td>
<td></td>
</tr>
<tr>
<td>Website</td>
<td><a href="https://www.cino.com.tw/">https://www.cino.com.tw/</a></td>
</tr>
</tbody>
</table>

2a. Manufacturer of the equipment (If the battery is contained in equipment)

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Phone</td>
<td></td>
</tr>
<tr>
<td>Email</td>
<td></td>
</tr>
<tr>
<td>Website</td>
<td></td>
</tr>
</tbody>
</table>

3. Test laboratory of battery

<table>
<thead>
<tr>
<th>Name</th>
<th>Jhih-Hong Technology Co., Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>6F., No. 15, Wu Chuan Rd., Wu-Ku Industrial Park, New Taipei City 248, Taiwan</td>
</tr>
<tr>
<td>Phone</td>
<td>+886-2-22989236</td>
</tr>
<tr>
<td>Email</td>
<td></td>
</tr>
<tr>
<td>Website</td>
<td></td>
</tr>
</tbody>
</table>

4. ID-number and date

<table>
<thead>
<tr>
<th>Unique test report identification number</th>
<th>JHT-525T2019-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of test report</td>
<td>04.06.2013</td>
</tr>
</tbody>
</table>
LITHIUM BATTERY TEST SUMMARY AND SUPPLIER INQUIRY
IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

DESCRIPTION OF BATTERY

5. Mark the type of battery with an “o”
   - Lithium ion battery
   - Lithium metal battery
   - Lithium hybrid battery

6. Parameters *
   - Mass in gram (g): 43 g
   - Lithium ion: Indicate watt-hour rating (Wh): 5.4 Wh
   - Lithium metal: Indicate lithium metal content in gram (g):
   - Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh):

7. Physical description of battery
   - Lithium-ion battery

8. Model numbers
   - SDE INR18650-15L

TESTS AND RESULTS

9. List of tests conducted and results - Mark N/A, pass or fail with an “o”
   - T1 - Altitude simulation
   - T2 - Thermal Test
   - T3 - Vibration
   - T4 - Shock
   - T5 - External Short Circuit
   - T6 - Impact - for cylindrical cells having a diameter of at least 18 mm
     See check point 1a and 9a.
   - T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells
     having a diameter of less than 18 mm. See check point 1a and 9a.
   - T7 - Overcharge
   - T8 - Forced Discharge, only valid for cells. See check point 1a and 9a.
LITHIUM BATTERY TEST SUMMARY AND SUPPLIER INQUIRY
IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

Name/Description of battery (taken from field 1)
Li-ion batterie 17-21BE-M040/0000

9a. UN 38.3 Test Confirmation for the Cells inside the battery
When no separate document for the cells is provided, this confirms that
the cells inside the battery (see checkpoint 1.a.) have successfully passed
the UN 38.3 test. In this case under checkpoint 9 the T.6 and T.8 must be
marked as „passed“ and here under 9.a. „Cell UN 38.3 Test confirmed“
needs to be ticked.

10. Reference to assembled battery testing requirements
N/A  

11. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto
The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, 5th revised edition

ADDITIONAL SUPPLIER INQUIRY

12. Quality management system for manufacturing batteries
Does the manufacturer of the battery manufacture the products based on a
documented quality management system according to transport regulations?

13. Are the following parameters exceeded?
- Lithium ion battery: more than 100 Wh
- Lithium metal battery: more than 2 g Lithium
- Lithium hybrid battery: more than 1.5 g Lithium and/or more than 10 Wh

Check point 14 – 16 need to be answered when 13 has been ticked „YES“:

14. Does each battery incorporate a safety venting device or is designed
to preclude a violent rupture under normal conditions of carriage?

15. Is each battery equipped with an effective means of preventing external short circuits?

16. 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.)?

17. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion batteries and lithium polymer batteries
State of Charge (SoC) max. 30 %
# Lithium Battery Test Summary and Supplier Inquiry

In accordance with Sub-section 38.3 of Manual of Tests and Criteria

## Batteries Installed in Equipment

<table>
<thead>
<tr>
<th>Question</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>18. Check point 18 needs to be answered when the batteries are installed in articles:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.a) Only button cells enclosed?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.b) Number of enclosed batteries per equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>When the equipment is intentionally active/switched on during transport e.g. data loggers:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.c) Confirmation that no dangerous amount of heat is emitted from the equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>19. Place, Date</th>
<th>20. Title, Surname, First Name</th>
<th>21. Company stamp and signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hüffenhardt</td>
<td>Kesselring, Manuela</td>
<td>Sigmann Delta GmbH</td>
</tr>
<tr>
<td>04.03.2020</td>
<td></td>
<td>D-74928 Hüffenhardt</td>
</tr>
</tbody>
</table>

* Parameters from samsung cell INR18650-15L