# LITHIUM CELL TEST SUMMARY AND SUPPLIER INQUIRY

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

N/A = Not Applicable

| 1. Name/Description of cell |
|---|
| VOLTCRAFT VC-18650 Lithium 3.6 V 3400 mAh 1 St., Nr. 3324204 |

| 2. Manufacturer of cell | |
|---|---|
| Name | CEI Conrad Electronic International (HK) Limited |
| Address | Unit 3901, 39th Flr, Tower 1, Metroplaza, No. 223 Hing Fong Road, Kwai Chung |
| Phone | (852) 2559 6328 |
| Email | (852) 2559 6328 |
| Website | www.voltcraft.de |

| 2a. Manufacturer of the equipment (if the cell is contained in equipment) | |
|---|---|
| Name | |
| Address | |
| Phone | |
| Email | |
| Website | |

| 3. Test laboratory of cell | |
|---|---|
| Name | Samsung SDI Co., Ltd. |
| Address | 467 467 , Beonyeong-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do 31086, K |
| Phone | 82415503399 |
| Email | lian55.kim@samsung.com |
| Website | www.samsungsdi.com.kr |

| 4. ID-number and date | | | |
|---|---|---|---|
| Unique test report identification number | SDI-UN-210929-02 | Date of test report | 2021-09-29 |

## DESCRIPTION OF CELL

| 5. Mark the type of cell with an "•" | | | |
|---|---|---|---|
| (•) | Lithium ion cell | | Lithium metal cell ( ) |





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| Name/Description of cell (taken from field 1) |
|---|
| VOLTCRAFT VC-18650 Lithium 3 |

| 6. Parameters | Cell |
|---|---|
| **Mass** in gram (g): | 48.7 |
| **Lithium ion:** Indicate watt-hour rating (Wh): | 12.24 |
| **Lithium metal:** Indicate lithium metal content in gram (g): | |

| 7. Physical description of cell |
|---|
| Cylinder plastic film shell |

| 8. Model numbers |
|---|
| VC-18650 |

## TESTS AND RESULTS

| 9. List of tests conducted and results<br>- Mark N/A, pass or fail with an " " | N/A | pass | fail |
|---|---|---|---|
| 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 | ○ | ● | ○ |
| T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm | ● | ○ | ○ |
| T7 - Overcharge | ● | ○ | ○ |
| T8 - Forced Discharge | ○ | ● | ○ |
| | ○ | ○ | ○ |
| | ○ | ○ | ○ |

| 10. Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto |
|---|
| UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.6/Amend.1/Subsection 38.3 |





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LITHIUM BATTERY SERVICE

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| **Name/Description of cell** (taken from field 1) |
|---|
| VOLTCRAFT VC-18650 Lithium 3. |

## ADDITIONAL SUPPLIER INQUIRY

| | | |
|---|---|---|
| **11. Quality management system for manufacturing cells**<br>Does the manufacturer of the cell/battery manufacture the products based on a documented quality management system according to transport regulations? | ● YES | ○ NO |
| **12. Are the following parameters exceeded?**<br>Lithium ion cell: more than 20 Wh<br>Lithium metal cell: more than 1 g Lithium | ○ YES | ● NO |

| **Check point 13 – 15 need to be answered when 12 has been ticked "YES":** | | | |
|---|---|---|---|
| **13.** Does each cell incorporates a safety venting device or is designed to preclude a violent rupture under normal conditions of carriage? | ○ YES | ○ NO | |
| **14.** Is each cell equipped with an effective means of preventing external short circuits? | ○ YES | ○ NO | |
| **15.** 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 | | ○ N/A |

| **16. Only in air transport: State of Charge (SoC) for UN 3480 Lithium ion cells and lithium polymer cells** | | | | | |
|---|---|---|---|---|---|
| State of Charge (SoC) max. 30 % | ● N/A | ○ YES | ○ NO | | |

## CELLS INSTALLED IN EQUIPMENT

| | | | |
|---|---|---|---|
| **17. Check point 17 needs to be answered when the cells are installed in articles:** | | | |
| **17.a) Only button cells enclosed?** | ○ YES | ○ NO | |
| **17.b) Number of enclosed cells (other than button cells) per equipment** | | | |
| **When the equipment is intentionally active/switched on during transport e.g. data loggers:** | | | |
| **17.c) Confirmation that no dangerous amount of heat is emitted from the equipment** | ○ N/A | ○ YES | ○ NO |
| **17.d) Confirmation that the equipment when transported by air fulfills the defined air transport standards for electromagnetic radiation according to DO-160** | ○ N/A | ○ YES | ○ NO |

| 18. Place, Date | 19. Title, Surname, First name | 20. Company stamp and signature |
|---|---|---|
| Hong Kong<br>15 June 2026 | QA Manager<br>Setidharma, Hindratno | |





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