

# LITHIUM BATTERY TEST SUMMARY AND SUPPLIER INQUIRY

IN ACCORDANCE WITH SUB-SECTION 38.3 OF MANUAL OF TESTS AND CRITERIA  
(Battery Summery)



## Client:

|         |                             |
|---------|-----------------------------|
| Date    | 25.08.2020                  |
| Company | Instagrid GmbH              |
| Address | Hermann-Hagenmeyer-Straße 1 |
| Address | 71636 Ludwigsburg; Germany  |

Cell

Battery

Product

## Manufacturer of cell or battery:

|               |   |
|---------------|---|
| Name          | Instagrid GmbH  |
| Address       | Hermann-Hagenmeyer-Straße 1, 71636 Ludwigsburg; Germany |
| Phone         | +49 (0) 7141 - 6962434                                  |
| Email         | regulatory@instagrid.co                                 |
| Internet Page | https://instagrid.co/                                   |

## Manufacturer of equipment (if the cell or battery is contained in equipment):

|               |  |
|---------------|--|
| Name          |  |
| Address       |  |
| Phone         |  |
| Email         |  |
| Internet Page |  |

## Test laboratory:

|               |   |
|---------------|---|
| ID-number     | 28253823 001                                |
| Date          | 09.02.2018                                  |
| Name          | TÜV Rheinland InterCert Kft., MEEI Division |
| Address       | H-1135 Budapest, Béke út 41-43, Hungary     |
| Phone         | +36-1-461-1100                              |
| Email         | tuv@hu.tuv.com                              |
| Internet Page | www.tuv.hu                                  |

## Description of battery:

|   |                                     |                       |                          |                        |                          |
|---|-------------------------------------|-----------------------|--------------------------|------------------------|--------------------------|
| Lithium ion battery   | <input checked="" type="checkbox"/> | Lithium metal battery | <input type="checkbox"/> | Lithium hybrid battery | <input type="checkbox"/> |
| Lithium ion cell  | <input type="checkbox"/>            | Lithium metal cell    | <input type="checkbox"/> |                        |                          |
| Physical description of battery and model number : instagrid battery module (Rechargeable Li-ion INR21/70)<br>Modell: 6INR21/70 |                                     |                       |                          |                        |                          |

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## Parameters:

|  |         |
|--|---------|
| Mass in gram (g):  | 500 g   |
| Lithium ion: Indicate watt-hour rating (Wh):   | 86,4 Wh |
| Lithium metal: Indicate lithium metal content in gram (g):                           | g       |
| Lithium hybrid: Indicate lithium metal content in gram (g) and watt-hour rating (Wh) | g<br>Wh |

| List of Tests and Results  | pass                                | fail                     | N/A                                 |
|--|-------------------------------------|--------------------------|-------------------------------------|
| T1 - Altitude simulation (38.3.4.1)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| T2 - Thermal test (38.3.4.2)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| T3 - Vibration (38.3.4.3)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| T4 - Shock (38.3.4.4)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| T5 - External short circuit (38.3.4.5)   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| T6 - Impact - for cylindrical cells having a diameter of at least 18 mm. (38.3.4.6)  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| T6 - Crush - for prismatic cells, pouch cells, button cells and cylindrical cells having a diameter of less than 18 mm. (38.3.4.6) | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| T7 - Overcharge (38.3.4.7)   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| T8 - Forced discharge (for cells only) (38.3.4.8)  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

## Battery assembly:

|  |  |  |
|--|--|--|
| Not applicable <input checked="" type="checkbox"/>   | UN 38.3.3 (f) <input type="checkbox"/> | UN 38.3.3 (g) <input type="checkbox"/> |
| Test reference: UN Manual of Tests and Criteria, Part III, subsection 38.3: IEC 62281:2016 / UN38.3 Rev.6. Am.1. edition |  |  |

Ludwigsburg, 08.03.21  
Place and, date

A. Sedlmayr, CEO  
Name and position

Signature



**Instagrid GmbH**  
Hermann-Hagenmeyer-Str. 1  
71636 Ludwigsburg  
<https://instagrid.co>

company stamp