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|---|---|------|------------|
| <br>smart-battery-solutions.de<br>Power wherever you want | UN 38.3 Test Summary for Batteries            | Date | 07.07.2020 |
|   | Name of battery: Batterie_12S7P_INR_18650_30Q |      |            |
|   | Model numbers: 12S7P (SR)                     | Page | 1 from 2   |

# UN 38.3 Test Summary for Batteries

**Document is for batteries which required:**  
UN3090, UN3091, UN3480, UN3481, UN3166 (if Hybrid) and UN3171

|  |
|--|
| <b>1. Name and physical description of battery</b> |
| Batterie_12S7P_INR_18650_30Q                       |


|                         |
|-------------------------|
| <b>2. Model numbers</b> |
| 12S7P (SR)              |

|                                   |   |
|-----------------------------------|---|
| <b>3. Manufacturer of battery</b> |   |
| Name                              | CAYAGO AG   |
| Address                           | Leibnitzstraße 4 / 32108 Bad Salzuflen/ Germany     |
| Phone                             | +49 5222 8509 - 0                                   |
| Email                             | info@seabob.com                                     |
| Website                           | <a href="https://seabob.com">https://seabob.com</a> |

|                                 |   |
|---------------------------------|---|
| <b>3.a Assembler of battery</b> |   |
| Name                            | Smart Battery Solutions GmbH  |
| Address                         | Lindigstr.8a / 63801 Kleinostheim / Germany   |
| Phone                           | +49 6027 990813 - 0   |
| Email                           | info@smart-battery-solutions.de   |
| Website                         | <a href="http://www.smart-battery-solutions.de">http://www.smart-battery-solutions.de</a> |

|                                      |   |
|--------------------------------------|---|
| <b>4. Test laboratory of battery</b> |   |
| Name                                 | CETECOM ICT Services GmbH                                   |
| Address                              | Untertuerkheimer Strasse 6-10, 66117 Saarbruecken, Germany  |
| Phone                                | +49 681 5 98 - 0  |
| Email                                | ict@cetecom-com   |
| Website                              | <a href="http://www.cetecom.com">http://www.cetecom.com</a> |

|  |                 |
|--|-----------------|
| <b>5. Test report ID and date</b>        |                 |
| Unique test report identification number | 1-7465/14-01-03 |
| Date of test report                      | 2013-03-19      |

|   |   |      |            |
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|   | Model numbers: 12S7P (SR)                     | Page | 2 from 2   |


|   |       |
|---|-------|
| <b>6. Description and parameters of battery</b> |       |
| Lithium-Ion battery                             |       |
| Mass in gram (g +/- 5%):                        | 5990  |
| Indicate watt-hour rating (Wh):                 | 907,2 |

|   |
|---|
| <b>7. State of Charge (SoC) for UN 3480 Lithium Ion batteries (only in air transport)</b> |
| State of Charge (SoC) is max. 30 %  |

|                            |
|----------------------------|
| <b>8. Test requirement</b> |
| UN 38.3 Rev.5              |

| 9. Test results             | Test passed  |
|-----------------------------|--------------|
| T1 - Altitude simulation    | Yes          |
| T2 - Thermal Test           | Yes          |
| T3 - Vibration              | Yes          |
| T4 - Shock                  | Yes          |
| T5 - External Short Circuit | Yes          |
| T6 - Impact / Crush         | Not required |
| T7 - Overcharge             | Yes          |
| T8 - Forced Discharge       | Not required |

|  |
|--|
| <b>10. Composite batteries (more batteries in series or parallel / more module system)</b> |
| No, single battery   |
| Yes: Reference to test requirement 38.3.3 (f) and (g)                                      |

| 11. Place, Date             | Position, Surname First name       | Company stamp and signature  |
|-----------------------------|------------------------------------|--|
| Kleinostheim,<br>07.07.2020 | General Manager,<br>Christian Lieb | <br><b>smart-battery-solutions.de</b><br><small>Power wherever you want</small><br>Smart Battery Solutions GmbH<br>Lindigstraße 8a • D-63801 Kleinostheim<br>www.smart-battery-solutions.de<br>E-Mail: info@smart-battery-solutions.de<br>Tel.: +49 6027 - 990 81 30 • Fax: +49 6027 - 990 81 38 |