

Lithium Ion Battery Test Summary

LITHIUM CELLS OR BATTERIES TEST SUMMARY IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

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Lithium Ion cells and Monti Lithium-Ion-batteries Li-Power and LiHD have been successfully tested and comply with UN Model Regulation, Manual of Test and Criteria, Part III subsection 38.3

| PERFORMED TESTS | | | RESULTS | |
|-----------------|----|------------------------|----------------|----------------|
| | | | Cells | Batteries |
| 38.3.4.1 | T1 | Altitude Simulation | Pass | Pass |
| 38.3.4.2 | T2 | Thermal Test | Pass | Pass |
| 38.3.4.3 | T3 | Vibration | Pass | Pass |
| 38.3.4.4 | T4 | Shock | Pass | Pass |
| 38.3.4.5 | T5 | External Short Circuit | Pass | Pass |
| 38.3.4.6 | T6 | Impact / Crush | Pass | Not applicable |
| 38.3.4.7 | T7 | Overcharge | Not applicable | Pass |
| 38.3.4.8 | T8 | Forced Discharge | Pass | Not applicable |

The UN38.3 tests were performed at least by one of the following test houses and were tested to UN Manual Test and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

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| TÜV Rheinland InterCert Kft. Termék üzletág Villamos laboratórium Beke u. 41-43 H-1135 Budapest, Hungary Telephone: +36-1-461-1100 E-Mail: tuv@hu.tuv.com Web: www.tuv.hu | Samsung SDI Safety Center 467, Beonyeong-ro Seobuk-gu, Cheonan-si Chungcheongnam-do, Korea Telephone: +82-41-560-3114 E-Mail: sdimaster@samsung.com Web: www.samsungsdi.com |
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Product Test Information - Cells

| Model | Physical Description | Weight | Rating | Test report | |
|-----------|-------------------------|--------|--------|------------------|------------|
| | | [kg] | [Wh] | number | date |
| INR-21700 | Li-ion cylindrical cell | 0,067 | 14,4 | SDI-UN-170306-01 | 2017-03-06 |

Product Test Information – Batteries 18V

Batteries are exchangeable and can be used in all 18 V products

| Model number | Physical Description | Weight | Rating | SoC | Test report | | |
|--------------------------------|---------------------------------|--------|--------|--------------|--------------|------------|--------------------|
| | | [kg] | [Wh] | [%] | number | date | regulation |
| LiHD 637128000 321000740 | Li-Ion 18V – 5,5 Ah 5S2P | 0,845 | 99,0 | > 20 < 30 | BJ-AM50002CA | 2015-04-28 | UN 3480 UN 3481 |
| LiHD 637055000 321000980 | Li-Ion 18 V - 8,0 Ah 5S2P | 0,977 | 144,0 | > 20 < 30 | 28246520 001 | 2018-09-17 | UN 3480 UN 3481 |

Signature of responsible person of the Company

Drs. J. F. Doddema
 Chief Executive Officer & Partner

History

| Datum | Version | Benennung |
|-------------------|-----------------|--|
| 01.10.2019 | Rev. 1.0 | Lithium Ion Battery Test Summary |
| 01.10.2019 | Rev. 1.0 | Test Summary gem. EPTA-Vorlage |
| 15.10.2019 | Rev. 1.1 | Tippfehler korrigiert |
| 15.11.2019 | Rev. 1.2 | Test Reports 12V 2,0 und 4,0 Ah ergänzt, Historie ergänzt Produkte nach Spannungsklassen nachgetragen |
| 02.01.2020 | Rev. 1.3 | Verschiedene Test Reports ergänzt Zellen und Akku-Packs von Tenpower ergänzt Hersteller und Benennung der Zellen entfernt |
| 01.03.2020 | Rev. 1.4 | Für Packs Spalte mit SoC ergänzt (20% < SoC < 30%) Für Test Report Spalte mit Regulierung ergänzt (UN 3480/3481) Diverse Tippfehler korrigiert |
| 01.xx.20xx | Rev. 2.0 | Lithium Ion Battery Test Summary |