

Lithium cells or batteries test summary according to UN38.3

| Battery Manufacturer: Jauch Quartz GmbH In der Lache24 D-78056 Villingen-Schwenningen Germany +49 7720 945-0 www.jauch.com , info@jauch.com | UN38.3 Test Lab: Shenzhen SEM.Test Technology Co., Ltd. Liuxian'er Road, Block 70, Shenzhen, China www.semtest.com.cn admin@semtest.com.cn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-----------|---------------|---------|-----|----------|------|--|-----|-----------------|------|--|-----|-----------|------|--|-----|-------|------|--|-----|------------------------|------|--|-----|---------------|------|---------------|-----|------------|------|--|-----|------------------|------|---------------|---|
| Description of cell or battery: Cell/battery type: <input type="checkbox"/> Lithium metal <input checked="" type="checkbox"/> Lithium-ion Cell or battery: <input type="checkbox"/> cell <input checked="" type="checkbox"/> battery Model name: XT-20000QC2, QC3 Powerbank Part-no.: 246090, 246952, 246972 Voltage: 3.63V Capacity: 20100mAh Energy: 73Wh Lithium content: n/a Weight of cell/battery: 420g | Test report-no.: STR18129001S Date of test report: Dec. 19, 2018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| List of tests (result: pass/fail): <table border="1" data-bbox="204 1115 1078 1406"> <thead> <tr> <th>Test number</th> <th>Test item</th> <th>Result</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>T-1</td> <td>Altitude</td> <td>pass</td> <td></td> </tr> <tr> <td>T-2</td> <td>Thermal cycling</td> <td>pass</td> <td></td> </tr> <tr> <td>T-3</td> <td>Vibration</td> <td>pass</td> <td></td> </tr> <tr> <td>T-4</td> <td>Shock</td> <td>pass</td> <td></td> </tr> <tr> <td>T-5</td> <td>External short circuit</td> <td>pass</td> <td></td> </tr> <tr> <td>T-6</td> <td>Impact /Crush</td> <td>pass</td> <td>for cell only</td> </tr> <tr> <td>T-7</td> <td>Overcharge</td> <td>pass</td> <td></td> </tr> <tr> <td>T-8</td> <td>Forced Discharge</td> <td>pass</td> <td>for cell only</td> </tr> </tbody> </table> | Test number | Test item | Result | Remarks | T-1 | Altitude | pass | | T-2 | Thermal cycling | pass | | T-3 | Vibration | pass | | T-4 | Shock | pass | | T-5 | External short circuit | pass | | T-6 | Impact /Crush | pass | for cell only | T-7 | Overcharge | pass | | T-8 | Forced Discharge | pass | for cell only | For air transportation only: State of charge <input type="checkbox"/> max. 30% <input checked="" type="checkbox"/> not applicable |
| Test number | Test item | Result | Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-1 | Altitude | pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-2 | Thermal cycling | pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-3 | Vibration | pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-4 | Shock | pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-5 | External short circuit | pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-6 | Impact /Crush | pass | for cell only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-7 | Overcharge | pass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T-8 | Forced Discharge | pass | for cell only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Test results in accordance with the UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Test and Criteria ST/SG/AC.10/11 Rev.6, 38.3. Cell manufacturing as well as battery assembly is done under the quality assurance program of ISO9001:2008.

This document remains valid as long as no changes, modifications or additions are made to the model(s) described in this document. The model(s) has (have) been classified according to the applicable transport regulation and the UN Manual of Test and Criteria as of the date of the certification. The model(s) must be packed, labelled and documented according to country and other international regulations for transportation.

Name / Title of Signatory / Date

Sönke Zacher / Project Manager

Dec. 19, 2018

