



## UN38.3 TEST SUMMARY

IN ACCORDANCE WITH SUB-SECTION 38.3.5 OF UN MANUAL OF TESTS AND CRITERIA

| <b>Model: APST2S1P</b>  |  |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
|---|--|--|--|--|----------------|--------|--|---------------|---------------------|--------|---------------|--------------|--------|---------------|-----------|--------|---------------|-------|--------|---------------|------------------------|--------|---------------|----------------|--------|---------------|------------|--------|---------------|------------------|--------|
| <b>Type: Lithium ion battery 2S1P ICR18650 7.4V / 16.28Wh / 2200mAh</b> |  |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 1   | <b>Manufacturer</b><br>AccuPower Forschungs-, Entwicklungs- und Vertriebsgesellschaft mbH<br>Pirchäckerstraße 27, 8053 Graz, AUSTRIA<br>Tel.: +43 (316) 26 29 11-0   Mail: info@accupower.at   Web: www.accupower.at   |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 2   | <b>UN38.3 Test lab</b><br>PONY HQ Building<br>Add: Bldg1, Court 66, Jindai Road, Zhongguancun Environmental Protection Park,<br>Haidian District, Beijing, CHINA / Tel.: +86-10-83055000/82618116  <br>Email: pony@ponytest.com   Web: www.ponytest.com  |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 3   | <b>Test report number:</b> I06173084021D-1   |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 4   | <b>Date of test report:</b> 07-04-2014   |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 5   | <b>Description of cell or battery</b><br>Lithium ion battery 2S1P ICR18650 7.4V / 16.28Wh / 2200mAh<br>in shrinking tube with cable,<br>LxBxH: 37 x 19 x 68.5mm +/- 1mm / 0,090kg +/- 0,005kg,<br>AccuPower Product Model: APST2S1P  |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 6   | <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <table border="1" style="width: 45%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">UN38.3 Tests performed and successfully passed</th> </tr> <tr> <th>Performed test</th> <th colspan="2">Result</th> </tr> </thead> <tbody> <tr><td>38.3.4.1 / T1</td><td>Altitude Simulation</td><td>Passed</td></tr> <tr><td>38.3.4.2 / T2</td><td>Thermal Test</td><td>Passed</td></tr> <tr><td>38.3.4.3 / T3</td><td>Vibration</td><td>Passed</td></tr> <tr><td>38.3.4.4 / T4</td><td>Shock</td><td>Passed</td></tr> <tr><td>38.3.4.5 / T5</td><td>External Short Circuit</td><td>Passed</td></tr> <tr><td>38.3.4.6 / T6</td><td>Impact / Crush</td><td>Passed</td></tr> <tr><td>38.3.4.7 / T7</td><td>Overcharge</td><td>Passed</td></tr> <tr><td>38.3.4.8 / T8</td><td>Forced Discharge</td><td>Passed</td></tr> </tbody> </table> <div style="width: 45%; text-align: center;">  <div style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> <p>Transportation Safety Test passed for:</p> <input checked="" type="checkbox"/> Cargo Aircraft only<br/> <input checked="" type="checkbox"/> Sea<br/> <input checked="" type="checkbox"/> Road           </div>  </div> </div> | UN38.3 Tests performed and successfully passed |  |  | Performed test | Result |  | 38.3.4.1 / T1 | Altitude Simulation | Passed | 38.3.4.2 / T2 | Thermal Test | Passed | 38.3.4.3 / T3 | Vibration | Passed | 38.3.4.4 / T4 | Shock | Passed | 38.3.4.5 / T5 | External Short Circuit | Passed | 38.3.4.6 / T6 | Impact / Crush | Passed | 38.3.4.7 / T7 | Overcharge | Passed | 38.3.4.8 / T8 | Forced Discharge | Passed |
| UN38.3 Tests performed and successfully passed                          |  |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| Performed test  | Result   |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.1 / T1   | Altitude Simulation  | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.2 / T2   | Thermal Test   | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.3 / T3   | Vibration  | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.4 / T4   | Shock  | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.5 / T5   | External Short Circuit   | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.6 / T6   | Impact / Crush   | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.7 / T7   | Overcharge   | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 38.3.4.8 / T8   | Forced Discharge   | Passed   |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 7   | <b>Edition of UN Manual of used test and criteria:</b> Rev.5 / Amend. 2  |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 8   | <b>Assembled Battery Testing Requirements:</b> not applicable  |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |
| 9   | <b>Name and title of signatory / company stamp</b><br><br><br><br><br><br><br><br><br><b>Mr. Issam Al-Abassy / Application Engineering Manager</b>   |  |  |  |                |        |  |               |                     |        |               |              |        |               |           |        |               |       |        |               |                        |        |               |                |        |               |            |        |               |                  |        |

