

# UN 38.3 Test Summary Report

Lithium Cell or Battery Test Summary in Accordance with Section 2.9.4 UN Model Regulations and Sub-section 38.3 of the UN Manual of Tests and Criteria, Part III, subsection 38.3.5

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| [a] <input type="checkbox"/> Cell <input checked="" type="checkbox"/> Battery <input type="checkbox"/> Product<br><input checked="" type="checkbox"/> <b>Tested Type Part #:</b> TLP-93311/B<br><input type="checkbox"/> <b>Same Type Part #:</b>                             |
| [b] <b>Manufacturer</b><br>Tadiran Batteries GmbH<br>Industriestrasse 22<br>63654 Buedingen<br>Germany<br>T. +49 6042 954 0<br><a href="mailto:info@tadiranbatteries.de">info@tadiranbatteries.de</a><br><a href="http://www.tadiranbatteries.de">www.tadiranbatteries.de</a> |

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| [d] Unique report ID: 15Q-678  |
| [e] Report date: 2005.03.01  |
| [c] <b>Test Laboratory</b><br>Tadiran Batteries Ltd.<br>P.O. Box 1<br>Kiryat Ekron<br>Israel 70500<br>T. +972 8 9 44 560<br><a href="mailto:sales@tadiran-batt.com">sales@tadiran-batt.com</a><br><a href="http://www.tadiran.com">www.tadiran.com</a> |


**Same Type Part Numbers # (all):** All configurations with harness and cable of this battery with part number 14 2 52830 xx. The Type can either be TLP- or SLP-.

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| [f] (i) <input type="checkbox"/> Li-ion <input checked="" type="checkbox"/> Li-metal.<br><br>(iv) <b>Description:</b> Primary (non-rechargeable) 7.4 V Lithium Thionyl Chloride (Li-SOCl <sub>2</sub> ) hybrid battery, assembled from 2 (two) groups in serial connection consisting of 1 (one) "D" sized SL-2880 cells and 1 (one) "AA/2" sized HLC-1520. Diodes are implemented to prohibit dangerous reverse currents. The TLP-93311/B battery may come with optional suffixes consisting of a "/" followed by one or more letters and a digit. These suffixes indicate different types of finishing to the battery e.g. harness. The battery may also start with the letters SLP-. Tadiran manufactures all cells/batteries under a quality management system as required under this regulation.<br>(ii) Mass: 220 g<br>(iii) <input type="checkbox"/> Watt hour rating or <input checked="" type="checkbox"/> Lithium content: 0.42 Wh and 10 g<br>(v) <input type="checkbox"/> Cell <input checked="" type="checkbox"/> Battery <input type="checkbox"/> Product. Model number/Part number: TLP-93311/B |
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| [g] List of Tests Conducted                      | Result (Pass / Fail / N.A.) | Test record reference |
|--|-----------------------------|-----------------------|
| 38.3.4.1 T.1: Altitude simulation                | Pass                        | Summery page 2        |
| 38.3.4.2 T.2: Thermal test                       | Pass                        | Summery page 2        |
| 38.3.4.3 T.3: Vibration                          | Pass                        | Summery page 2        |
| 38.3.4.4 T.4: Shock                              | Pass                        | Summery page 2        |
| 38.3.4.5 T.5: External short circuit             | Pass                        | Summery page 2        |
| 38.3.4.6 T.6: Impact/Crush (cell only test)      | Pass                        | 15Q-610, 15Q-615      |
| 38.3.4.7 T.7: Overcharge (N.A for Li-metal only) | N.A.                        | N.A.                  |
| 38.3.4.8 T.8: Forced discharge (cell only test)  | Pass                        | Summery page 2        |

[h] Battery assembly:  Not Applicable.  UN38.3.3 (f)  UN38.3.3 (g)

[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3. *Sixth revised edition*

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| [j] Signatory A. Date: 2022.04.19<br>Name: Marc Henn<br>Title: Application Engineering Manager<br>Signature:<br> |
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| [j] Signatory B. Date: 2022.04.19<br>Name: Olaf G. Lichtlein<br>Title: General Manager<br>Signature:<br> |
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**Important!** The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Tadiran and, should Tadiran consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.