

# 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

<p>[a] <input type="checkbox"/> Cell <input checked="" type="checkbox"/> Battery <input type="checkbox"/> Product  <input checked="" type="checkbox"/> <b>Tested Type Part #:</b> TLP-97321/A  <input type="checkbox"/> <b>Same Type Part #:</b></p>	<p>[d] Unique report ID: F50VA34.R005</p>
<p>[b] <b>Manufacturer</b>  Tadiran Batteries Ltd.  P.O. Box 1  Kiryat Ekron  Israel 70500  T. +972 8 9 44 560  <a href="mailto:sales@tadiran-batt.com">sales@tadiran-batt.com</a>  <a href="http://www.tadiran.com">www.tadiran.com</a></p>	<p>[e] Report date: 2017.03.01</p> <p>[c] <b>Test Laboratory</b>  Fey Elektronik GmbH  Storchenweg 3  21217 Seevetal  Germany  T. +49 40 703 88 88 0</p>

**Same Type Part Numbers # (all):** All configurations with harness and cable of this battery with part number 17 9 73211 xx. The Type can either be TLP- or SLP-.

[f] (i)  Li-ion  Li-metal.

(iv) **Description:** Primary (non-rechargeable) 3.7 V Lithium Thionyl Chloride (Li-SOCI<sub>2</sub>) hybrid battery, assembled from 2 (two) "2/3 AA" sized SL-861 cells and 1 (one) "AA/2" sized HLC-1520. The TLP-97321/A 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.

(ii) Mass: 35 g  
(iii)  Watt hour rating or  Lithium content: 0.22 Wh and 1 g  
(v)  Cell  Battery  Product. Model number/Part number: TLP-97321/A

[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	Summery page 2
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*

<p>[j] Signatory A. Date: 2018.12.12  Name: Marc Henn  Title: Application Engineering Manager  Signature.  </p>		<p>[j] Signatory B. Date: 2018.12.12  Name: Olaf G. Lichtlein  Title: General Manager  Signature.  </p>
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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.