

# 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

[a] <input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product <input checked="" type="checkbox"/> <b>Tested Type Part #:</b> HLC-1520A <input type="checkbox"/> <b>Same Type Part #:</b>
[b] <b>Manufacturer</b> Tadiran Batteries Ltd. 44 Yitzhak Rabin Blvd, Kiryat Ekron, Israel 7695001 T. +972 8 9 44 503 <a href="mailto:sales@tadiran-batt.com">sales@tadiran-batt.com</a> <a href="http://www.tadiran.com">www.tadiran.com</a>

[d] Unique report ID: 15Q-649
[e] Report date: February 2014
[c] <b>Test Laboratory</b> Tadiran Batteries Ltd. 44 Yitzhak Rabin Blvd, Kiryat Ekron, Israel 7695001 T. +972 8 9 44 560 <a href="mailto:aya-d@tadiran-batt.com">aya-d@tadiran-batt.com</a> <a href="http://www.tadiran.com">www.tadiran.com</a>

<input checked="" type="checkbox"/> <b>Same Type Part Numbers # (all):</b> covers all the HLC-1520A/xxx part numbers with various contact terminations / harness.
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[f] (i) <input checked="" type="checkbox"/> Li-ion <input checked="" type="checkbox"/> Li-metal.  (iv) <b>Description:</b> HLC-1520A is designed to be connected in parallel to a primary lithium metal battery with OCV of up to 3.9V, consists of a single cell and can be transported as a lithium metal battery under UN numbers 3090 and 3091. The HLC-1520A battery may come with the suffixes consist of a “/” followed by one or two letters and digits which indicate different finishing such as /T, /TP, /PT2, etc. Tadiran manufactures all cells/batteries under a quality management system as required under this regulation.  (ii) Mass: 10 g (iii) <input checked="" type="checkbox"/> Watt hour rating or <input checked="" type="checkbox"/> Lithium content: 0.21 Wh and 0g (v) <input checked="" type="checkbox"/> Cell <input type="checkbox"/> Battery <input type="checkbox"/> Product. Model number/Part number: HLC-1520A
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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	15Q-649
38.3.4.2 T.2: Thermal test	Pass	15Q-649
38.3.4.3 T.3: Vibration	Pass	15Q-649
38.3.4.4 T.4: Shock	Pass	15Q-649
38.3.4.5 T.5: External short circuit	Pass	15Q-649
38.3.4.6 T.6: Impact/Crush (cell only test)	Pass	15Q-649, 15Q-958
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	15Q-649

[h] Battery assembly: <input type="checkbox"/> Not Applicable. <input checked="" type="checkbox"/> UN38.3.3 (f) <input type="checkbox"/> UN38.3.3 (g)
[i] Test Reference: UN Manual of Tests and Criteria, Part III, sub-section 38.3. <i>Sixth revised edition</i>

[j] Signatory A. Date: 2020.01.27 Name: Aya Daniel Title: Quality Manager Signature.  <div style="text-align: center; font-family: cursive; font-size: 1.2em;">A. Daniel</div>
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[j] Signatory B. Date: 2020.01.27 Name: Kobi Pinsky Title: VP Marketing and Sales Signature.  <div style="text-align: center; font-family: cursive; font-size: 1.2em;">Kobi Pinsky</div>
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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.