


## UN 38.3 Test Summary Report

<p>[a] Name of cell, battery or product manufacturer, as applicable</p> <p><b>Item Number : XL-145F</b>          Item Name : Cell          Item Description : 3.6V / 8.5Ah          Same Type Part          - STD : Standard(with no terminal)          - Terminal type            · Tag : T1            · Pin : AX            · Harness and cable : C&amp;W</p>	<p>[b] Cell, battery, or product manufacturer's contact information to include address, phone number, email address and website for more information;</p> <p style="text-align: center;"><b>XENOENERGY Co., Ltd.</b>          70-7, Muha-ro, Hwaseong-city, Kyonggi-do          Republic of Korea, 18729          T. +82 31 355 3511  <a href="mailto:global@xenoenergy.com">global@xenoenergy.com</a>  <a href="http://www.xenoenergy.com">www.xenoenergy.com</a></p>																
<p>[c] Name of the test laboratory to include address, phone number, email address and website for more information;</p> <p style="text-align: center;"><b>XENOENERGY CO., LTD.</b>          70-7, Muha-ro, Hwaseong-city, Kyonggi-do          Republic of Korea, 18729          T. +82 31 355 3511  <a href="mailto:rmd@xenoenergy.com">rmd@xenoenergy.com</a>  <a href="http://www.xenoenergy.com">www.xenoenergy.com</a></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p>[d] A unique test report identification number;</p> <p style="text-align: center;">Xeno Q171016</p> </td> <td style="width: 50%; padding: 5px;"> <p>[e] Date of test report;</p> <p style="text-align: center;">October 16, 2017</p> </td> </tr> </table>	<p>[d] A unique test report identification number;</p> <p style="text-align: center;">Xeno Q171016</p>	<p>[e] Date of test report;</p> <p style="text-align: center;">October 16, 2017</p>														
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<p>[f] Description of cell or battery to include at a minimum: Lithium ion or lithium metal cell or battery; Mass; Watt-hour rating, or lithium content; Physical description of the cell/battery; and Model numbers.</p> <p>Cell used in implantable medical devices, such as : Pacemaker(IPG), Neuro-Stimulators or Implantable Defibrillators(ICD)</p> <p>( i ) Lithium metal          ( ii ) Mass : max. 54g          ( iii ) Lithium content : 2.3g          ( iv ) ELC or W/h rating : 3.6V / 8.5Ah          ( v ) Model number: XL-145F</p>	<p>[g] List of tests conducted and results (i.e., pass/fail);</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;"><input checked="" type="checkbox"/> Test T.1 : Altitude simulation</td> <td style="text-align: right;">Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.2 : Thermal test</td> <td style="text-align: right;">Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.3 : Vibration</td> <td style="text-align: right;">Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.4 : Shock</td> <td style="text-align: right;">Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.5 : External short circuit</td> <td style="text-align: right;">Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.6 : Impact/Crush(cell only test)</td> <td style="text-align: right;">Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.7 : Overcharge(N.A for Li-metal only)</td> <td style="text-align: right;">N/A</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.8 : Forced discharge(cell only test)</td> <td style="text-align: right;">Pass</td> </tr> </table> <p>Testing additional comments : No additional information</p>	<input checked="" type="checkbox"/> Test T.1 : Altitude simulation	Pass	<input checked="" type="checkbox"/> Test T.2 : Thermal test	Pass	<input checked="" type="checkbox"/> Test T.3 : Vibration	Pass	<input checked="" type="checkbox"/> Test T.4 : Shock	Pass	<input checked="" type="checkbox"/> Test T.5 : External short circuit	Pass	<input checked="" type="checkbox"/> Test T.6 : Impact/Crush(cell only test)	Pass	<input checked="" type="checkbox"/> Test T.7 : Overcharge(N.A for Li-metal only)	N/A	<input checked="" type="checkbox"/> Test T.8 : Forced discharge(cell only test)	Pass
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<p>[h] Reference to assembled battery testing requirements, if applicable (i.e. 38.3.3 (f) and 38.3.3 (g));</p> <p style="text-align: center;">Not Applicable.</p>	<p>[i] Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any;</p> <p style="text-align: center;">UN Manual of Tests and Criteria, Part III, sub-section 38.3. sixth revised edition</p>																
<p>[j] Signature with name and title of signatory as an indication of the validity of information provided.</p> <p>Name(Signed by) : JR Kim          Title : Director of R&amp;D</p> <div style="text-align: center; margin-top: 10px;">   <hr style="width: 20%; margin: 0 auto;"/> </div>	<p>Date this document was generated.</p> <p style="text-align: center;">Oct. 21, 2019</p>																
<p><b>Important!</b> 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 XENOENERGY and, should XENOENERGY consider this request is with merit, may be subject to the prior execution of a nondisclosure agreement.</p>																	

