


## UN 38.3 Test Summary Report

<p>[a] Name of cell, battery or product manufacturer, as applicable</p> <p>Item Number : PT-2300  Item Name : Cell  Item Description : 3.6V / 19Ah  Same Type Part  - STD : Standard(with no terminal)  - Terminal type  · Tab : -T(T1)  · Axial : -A(AX)  · Connector : -S(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>Xenoenergy Co., Ltd.  70-7, Muha-ro, Hwaseong-city, Kyounggi-do  Republic of Korea, 18729  Tel : +82 31 355 3511  E-mail : global@xenoenergy.com  Website : www.xenoenergy.com</p>																
<p>[c] Name of the test laboratory to include address, phone number, email address and website for more information;</p> <p>Xenoenergy Co., Ltd.  70-7, Muha-ro, Hwaseong-city, Kyounggi-do  Republic of Korea, 18729  Tel : +82 31 355 3511  E-mail : R&amp;D@xenoenergy.com  Website :www.xenoenergy.com</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 Q110525</p> </td> <td style="width: 50%; padding: 5px;"> <p>[e]Date of test report;</p> <p style="text-align: center;">May. 25, 2011</p> </td> </tr> </table>	<p>[d] A unique test report identification number;</p> <p style="text-align: center;">Xeno Q110525</p>	<p>[e]Date of test report;</p> <p style="text-align: center;">May. 25, 2011</p>														
<p>[d] A unique test report identification number;</p> <p style="text-align: center;">Xeno Q110525</p>	<p>[e]Date of test report;</p> <p style="text-align: center;">May. 25, 2011</p>																
<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. 111g  (iii) Lithium content : 4.8g  (iv) ELC or W/h rating : 3.6V / 19Ah  ( v ) Model number: PT-2300</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;">T1 Test Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.2 : Thermal test</td> <td style="text-align: right;">T2 Test Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.3 : Vibration</td> <td style="text-align: right;">T3 Test Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.4 : Shock</td> <td style="text-align: right;">T4 Test Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.5 : External short circuit</td> <td style="text-align: right;">T5 Test Pass</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.6 : Impact/Crush(cell only test)</td> <td style="text-align: right;">T6 Test 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;">Not Applicable</td> </tr> <tr> <td><input checked="" type="checkbox"/> Test T.8 : Forced discharge(cell only test)</td> <td style="text-align: right;">T8 Test Pass</td> </tr> </table> <p>Testing additional comments :</p> <p style="text-align: center;">No additional information</p>	<input checked="" type="checkbox"/> Test T.1 : Altitude simulation	T1 Test Pass	<input checked="" type="checkbox"/> Test T.2 : Thermal test	T2 Test Pass	<input checked="" type="checkbox"/> Test T.3 : Vibration	T3 Test Pass	<input checked="" type="checkbox"/> Test T.4 : Shock	T4 Test Pass	<input checked="" type="checkbox"/> Test T.5 : External short circuit	T5 Test Pass	<input checked="" type="checkbox"/> Test T.6 : Impact/Crush(cell only test)	T6 Test Pass	<input checked="" type="checkbox"/> Test T.7 : Overcharge(N.A for Li-metal only)	Not Applicable	<input checked="" type="checkbox"/> Test T.8 : Forced discharge(cell only test)	T8 Test Pass
<input checked="" type="checkbox"/> Test T.1 : Altitude simulation	T1 Test Pass																
<input checked="" type="checkbox"/> Test T.2 : Thermal test	T2 Test Pass																
<input checked="" type="checkbox"/> Test T.3 : Vibration	T3 Test Pass																
<input checked="" type="checkbox"/> Test T.4 : Shock	T4 Test Pass																
<input checked="" type="checkbox"/> Test T.5 : External short circuit	T5 Test Pass																
<input checked="" type="checkbox"/> Test T.6 : Impact/Crush(cell only test)	T6 Test Pass																
<input checked="" type="checkbox"/> Test T.7 : Overcharge(N.A for Li-metal only)	Not Applicable																
<input checked="" type="checkbox"/> Test T.8 : Forced discharge(cell only test)	T8 Test Pass																
<p>[h] Reference to assembled battery testing requirements,  if applicable (i.e. 38.3.3 (f) and 38.3.3 (g));</p> <p>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>UN Manual of Tests and Criteria, Part III, sub-section 38.3.  <i>sixth revised edition</i></p>																
<p>[j] Signature with name and title of signatory as an indication  of the validity of information provided.</p> <p>Assistant Managing Director  Director of R&amp;D Center</p> <p style="font-size: 1.2em; font-weight: bold; margin-top: 20px;">JR Kim</p> 	<p>Date this document was generated.</p> <p style="text-align: center;">Oct. 21, 2019</p>																