



**TEST REPORT  
IEC 62619**

**Secondary cells and batteries containing alkaline or other non-acid electrolytes -  
Safety requirements for secondary lithium cells and batteries, for use in industrial  
applications**

**Report Number**..... : CPSC06041617

**Date of issue**..... : 2017-01-23

**Total number of pages** ..... 41 pages

**Applicant's name** ..... : SAMSUNG SDI Co., Ltd.

**Address**..... : 467, Beonyeong-ro, Seobuk-gu, Cheonan-si,  
Chungcheongnam-do 31086, REPUBLIC OF KOREA

**Test specification:**

**Standard**..... : IEC 21A/577/CDV (draft IEC62619 Ed. 1.0)

**Test procedure** ..... : Test Report

**Non-standard test method** ..... : N/A

**Test Report Form No.** ..... : IEC62619A

**Test Report Form(s) Originator** .... : TÜV SÜD Product Service Ltd.

**Master TRF**..... : Dated 2013-10-18

**Test item description**..... : Rechargeable Li-ion Battery Rack System

**Trade Mark** ..... : -

**Manufacturer** ..... : SAMSUNG SDI Co., Ltd.  
467, Beonyeong-ro, Seobuk-gu, Cheonan-si,  
Chungcheongnam-do 31086, REPUBLIC OF KOREA

**Model/Type reference** ..... : ELPR913-00010

**Ratings** ..... : 971.52 Vd.c., 94 Ah

<b>Testing procedure and testing location:</b>	
<b>Testing Laboratory:</b>	
Testing location/ address .....	Only for Module and Rack System, SAMSUNG SDI Co., Ltd. 467, Beonyeong-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do 31086, REPUBLIC OF KOREA
Tested by (name + signature) .....	Chul-Ho Yang
Approved by (name + signature) ..	Marvin Lee
<b>List of Attachments:</b>	
<b>Annex 1: Page 23 to Page 41 for Photo Documentation</b>	
<b>Summary of testing:</b>	
<p><b>Tests performed (name of test and test clause):</b></p> <p>In section 7, each test clause below is performed by TÜV Rheinland according to IEC 21A/499/NP except for clause 7.2.3.1 about module which is performed by TÜV SÜD with three battery modules according to IEC 21A/577/CDV.</p> <ul style="list-style-type: none"> <li>- Clause 7.2.1 External short circuit test (cell or cell block)</li> <li>- Clause 7.2.2 Impact test (cell or cell block)</li> <li>- Clause 7.2.3.1 Whole drop test (cell or cell block and battery system)</li> <li>- Clause 7.2.4 Thermal abuse test (cell or cell block)</li> <li>- Clause 7.2.5 Overcharge test (cell or cell block)</li> <li>- Clause 7.2.6 Forced discharge test (cell or cell block)</li> <li>- Clause 7.3.2 Internal short-circuit (cell or cell block)</li> </ul> <p>In section 8, each test clause below is performed with one rack system except for clause 8.2.4 which is performed with one module and switch gear including BMU.</p> <ul style="list-style-type: none"> <li>- Clause 8.2.2 Over charge control of voltage (battery system)</li> <li>- Clause 8.2.3 Over charge control of current (battery system)</li> <li>- Clause 8.2.4 Overheating control (battery system)</li> </ul> <p>The samples comply with the requirement of IEC 21A/577/CDV (draft IEC62619 Ed. 1.0).</p>	<p><b>Testing location:</b></p> <p>For section 7 about cell, refer to the TÜV Rheinland certificate (Certificate number : R1 50353037).</p> <p>For clause 7.2.3.1 about module, SAMSUNG SDI Co., Ltd. 467, Beonyeong-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do 31086, REPUBLIC OF KOREA</p> <p>For section 8, SAMSUNG SDI Co., Ltd. 467, Beonyeong-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do 31086, REPUBLIC OF KOREA</p>

