



LG Chem Ltd.

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November 14, 2013

CERTIFICATE OF COMPLIANCE

The following product has been evaluated according to the 5th revised edition Amendment 1 of the UN Manual of Tests and Criteria.

We, LG Chem. Ltd hereby certify that this cell meets the requirements of the regulation for transportation of lithium-ion cells and batteries.

Customer Model Name : **L13L4E61**
Cell Model Name : **ICR18650C2 (2P*2S)**
Type of Cell : **Cylindrical**
Nominal capacity : **41.6 Wh**
Document No. : **QAE-EF02-131114-PKL13L4E61**

Conducted By: Dae Ho Nam

Handwritten signature of Dae Ho Nam in black ink.

Manager

Certification & Evaluation

LG Chem. Ltd

E-mail: kkammy@lgchem.com

Reviewed By: Byung Soo Kim

Handwritten signature of Byung Soo Kim in black ink.

Senior Manager

Certification & Evaluation

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Test Result

For more information, please refer to Document: QAE-EF02-131114-PKL13L4E61

<input type="checkbox"/> Lithium-ion cell	<input checked="" type="checkbox"/> Lithium-ion battery
Pack Model name	L13L4E61
Cell Model name	ICR18650C2
Nominal voltage	7.44 V
Nominal capacity	41.6 Wh
Lithium equivalent content	3.18g

No.	Test Item	Criteria	Result	Remark
Test 1	Altitude simulation	- No leakage (If $M < 1g$, less than 0.5%, If $1g \leq M \leq 75g$, less than 0.2%, If $M > 75g$, less than 0.1%), venting, disassembly, rupture and no fire. -Measuring mass before/after each test. -Measuring voltage before/after each test. (more than 90%)	Pass	
Test 2	Thermal test		Pass	
Test 3	Vibration		Pass	
Test 4	Shock		Pass	
Test 5	External Short Circuit	-No disassembly, rupture and fire within six hours of this test. -Max. temperature should not exceed 170°C.	Pass	
Test 6	Crush	-No disassembly and fire within six hours of this test. -Max. temperature should not exceed 170°C.	Pass	
Test 7	Overcharge	-No disassembly and fire within seven days of the test.	Pass	Battery only
Test 8	Forced discharge	-No disassembly and fire within seven days of the test.	Pass	

Tests through T1-T5 shall be conducted in sequence with the same battery.

We declare that the above-mentioned test is the result of being checked according to UN Test (Manual of Test and Criteria ST/SG/AC.10/11/Rev.5/Amendment1)

We certify that this cell is proved to meet the requirements of each applicable test in the UN Manual of Test and Criteria, Part III, sub-section 38.3

Conducted By: Dae Ho Nam



Manager

Certification & Evaluation

LG Chem. Ltd

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