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Global Standard Certification Part

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January 14 , 2016

CERTIFICATE OF COMPLIANCE

The following product has been evaluated according to the 5th revised edition
Amendment 2 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.

Model Name	:	M4863P3B
Cell Model name	:	JH3
Electric power Capacity	:	233 Wh
Type of Cell	:	Pouch
Document No.	:	QDI-160114-B-M4863P3B

Conducted By: Jae Seung Lee

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Test Result

For more information, please refer to Document QDI-160114-B-M4863P3B

<input type="checkbox"/> Lithium-ion cell	<input checked="" type="checkbox"/> Lithium-ion battery
Model name	M4863P3B
Cell Model name	JH3
Nominal voltage	51.8 V
Electric power capacity	233 Wh

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/Amendment2)

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

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