

UN38.3 Test Summary

Product	Lithium-ion cells
Model	ICR18650HB2 (1.5 Ah, for (A)B854L)
Product Description	<input checked="" type="checkbox"/> Lithium ion <input type="checkbox"/> Lithium polymer <input type="checkbox"/> Lithium metal <input type="checkbox"/> Large cell <input type="checkbox"/> Small cell <input type="checkbox"/> Battery <input type="checkbox"/> Large battery <input type="checkbox"/> Small battery <input type="checkbox"/> Single cell battery <input type="checkbox"/> Multi-cell battery <input type="checkbox"/> Battery assembly

Item:	Specification	Remark
Rated Voltage (Vdc):	3.65	
Rated capacity (Ah):	1.5	
End of discharge voltage (EODV) (Vdc):	2.0	
Standard charge voltage (Vdc):	4.2	
Maximum charge voltage (Vdc):	4.2	
Standard charge current (A):	0.75	
Maximum charge current (A):	4.0	
Standard discharge current (A):	0.3	
Maximum discharge current (A):	30	
Mass (kg):	Approx. 48 g	Cylindrical
Watt-hour rating , or lithium content:	5.475 Wh	

Test Report number	QAE-EF02-121010-CY018650HB2
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Date of Test Report	2012-10-10
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Testing Laboratory

Certification & Evaluation Team.. LG Chem. Ltd
 LG Twin Tower 20 Yoido-dong Youngdungpo-gu, Seoul, Korea
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Test Specification	UN Test (Manual of Test and Criteria ST/SG/AC.10/11/Rev.5)
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Tests Performed and Results	Test	Results		
		Pass	Fail	N/A
	T-1: Altitude simulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
T-2: Thermal Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T-3: Vibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T-4: Shock	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T-5: External short circuit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T-6: Impact / crush	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T-7: Overcharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
T-8: Forced discharge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/> 38.3.3 (f) applied <input type="checkbox"/> 38.3.3 (g) applied			

Manufactures's contact information	Mobiletron Electronics Co.,Ltd No.85, Sec.4, Chung-Ching Rd., Ta-Ya District,Taichung,428, Taiwan Website: www.durofix.com.tw / Email: Isaac@more.com.tw Tel: 886-4-25683366 Ext :1862
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Name and Title of Signatory	Safety Senior Supervisor Wen-Yao Chi <div style="text-align: right; margin-top: 10px;">  </div>
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October 10, 2012

CERTIFICATE OF COMPLIANCE

The following product has been evaluated according to the 5th revised edition 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	:	ICR18650HB2
Electric power capacity	:	5.475Wh
Type of Cell	:	Cylindrical
Document No.	:	QAE-EF02-121010-CY018650HB2

Conducted By: Dae Ho Nam

Handwritten signature of Dae Ho Nam in black ink.

Assistant Manager
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Reviewed By: Jun-Yong Jeong

Handwritten signature of Jun-Yong Jeong in black ink.

General Manager
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Test Result

For more information, please refer to Document QAE-EF02-121010-CY018650HB2

<input checked="" type="checkbox"/> Lithium-ion cell	<input type="checkbox"/> Lithium-ion battery
Model name	ICR18650HB2
Nominal voltage	3.65V
Electric power capacity	5.475Wh

No.	Test Item	Criteria	Result	Remark
Test 1	Altitude simulation	-No leakage, venting, disassembly, rupture and no fire. -Measuring mass before/after each test. (If M>5g, less than 0.1%) -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℃.	Pass	
Test 6	Impact		Pass	
Test 7	Overcharge	-No disassembly and fire within seven days of the test.	-	Battery only
Test 8	Forced discharge		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)

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

Reviewed By: Jun-Yong Jeong




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