




## Lithium Cell / battery UN38.3 test summary

Manufacturer..... LG Chem, Ltd.					
Address..... LG Twin Towers,128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Rep. of Korea					
Contact..... (82-2) 3773-1114 / <a href="http://www.lgchem.com">www.lgchem.com</a> / leekyungil@lgchem.com					
Test Laboratory..... LG Chem, Ltd./ Tech Center					
Address..... 188, Munji-ro, Yuseong-gu, Daejeon, Rep. of Korea					
Contact..... (82-42) 866-2114 / <a href="http://www.lgchem.com">www.lgchem.com</a> / kkammy@lgchem.com					
Description of cell or battery..... Li-ion battery					
Physical description..... Black square plastic (replaceable battery) or Black quadrate pack (embedded battery)					
List of tests conducted and results (Pass/fail):					
	No.	Test Clause	Testes Performed	Result	Remark
	T1	38.3.4.1	Altitude simulation	Pass	
	T2	38.3.4.2	Thermal test	Pass	
	T3	38.3.4.3	Vibration	Pass	
	T4	38.3.4.4	Shock	Pass	
	T5	38.3.4.5	External Short Circuit	Pass	
	T6	38.3.4.6	Crush/Impact	Pass	Component cell
	T7	38.3.4.7	Overcharge	Pass	
	T8	38.3.4.8	Forced Discharge	Pass	Component cell
Reference to the revised edition of the Manual of Tests and Criteria used and to amendments hereto, if any: <United Nations Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria>					
Taecheon Kim Associate Global Standard Certification Team			Tested : 		
Juhong Park IT & New Application Part Leader Global Standard Certification Team			Reviewed : 		
DaeHo Nam Team Leader Global Standard Certification Team			Approved : 		

## Test report list

Model Name	HP PN	Ratings			Mass (g)	Report number	Date of issue	Test period	Rev edition
		V	mAh	Wh					
HSTNN-LB72	462890-421 462890-422 (PSE)	10.8	4400	47	312.5	QAE-EF02-080307- PKHSTNN-LB72	2008/03/07	2008/01/29 2008/03/07	Rev.4/ Amd.2
HSTNN-LB73	462889-421 462889-422 462889-423	10.8	5100	55	333.0	QAE-EF02-080307- PKHSTNN-LB73	2008/03/07	2008/01/29 2008/03/07	Rev.4/ Amd.2
HSTNN-LB93	516479-421	10.8	4400	47	309.0	QAE-EF02-090220- PKHSTNN-LB93	2009/02/20	2009/01/13 2009/02/20	Rev.4/ Amd.2
HSTNN-LB94	513127-421	10.8	5200	55	323.0	QAE-EF02-090220- PKHSTNN-LB94	2009/02/20	2009/01/13 2009/02/20	Rev.4/ Amd.2
HSTNN-LB95	516480-421 516480-422	10.8	7800	83	476.0	QAE-EF02-090220- PKHSTNN-LB95	2009/02/20	2009/01/13 2009/02/20	Rev.4/ Amd.2
HSTNN-LB0C	530972-421	10.8	2600	28	175.5	QAE-EF02-090312- PKHSTNN-LB0C	2009/03/12	2009/02/02 2009/03/12	Rev.4/ Amd.2
HSTNN-LB0D	530973-421	10.8	5100	55	329.0	QAE-EF02-090421- PKHSTNN-LB0D	2009/04/21	2009/03/12 2009/04/21	Rev.4/ Amd.2
HSTNN-LB0E	532497-421 532497-422	11.1	8400	93	474.0	QAE-EF02-090612- PKHSTNN-LB0E	2009/06/12	2009/05/04 2009/06/12	Rev.4/ Amd.2
HSTNN-LB1A	587706-421	10.8	4400	47	309.0	QAE-EF02-091014- PKHSTNN-LB1A	2009/10/14	2009/09/04 2009/10/14	Rev.4/ Amd.2
HSTNN-LB1F	592260-421 592260-422	10.8	5600	55	326.5	QAE-EF02-091109- PKHSTNN-LB1F	2009/11/09	2009/09/30 2009/11/09	Rev.4/ Amd.2
HSTNN-LB0Y	586028-421 586028-422 586028-423	11.1	5600	62	326.5	QAE-EF02-091109- PKHSTNN-LB0Y	2009/11/09	2009/09/30 2009/11/09	Rev.4/ Amd.2
HSTNN-LB1B	592909-421 592909-422	11.1	8400	93	291.5	QAE-EF02-091203- PKHSTNN-LB1B	2009/12/03	2009/10/26 2009/12/03	Rev.4/ Amd.2
HSTNN-LB0X	586006-421 586006-422 586006-423	10.8	5200	55	322.0	QAE-EF02-100625- PKHSTNN-LB0X	2010/06/25	2010/05/18 2010/06/25	Rev.4/ Amd.2
HSTNN-LB3G	658997-421	10.8	5200	51	312.5	QAE-EF02-100913- PKHSTNN-LB3G	2010/09/13	2010/08/04 2010/09/13	Rev.4/ Amd.2
HSTNN-LB2F	628368-421	10.8	5200	55	312.5	QAE-EF02-100913- PKHSTNN-LB2F	2010/09/13	2010/08/04 2010/09/13	Rev.4/ Amd.2
HSTNN-LB2H	628369-421 628369-422	10.8	5800	55	322.5	QAE-EF02-100913- PKHSTNN-LB2H	2010/09/13	2010/08/04 2010/09/13	Rev.4/ Amd.2

HSTNN-LB2I	630919-421	11.1	9000	100	480.5	QAE-EF02-101015-PKHSTNN-LB2I	2010/10/15	2010/09/07 2010/10/15	Rev.4/ Amd.2
HSTNN-LB2W	633216-421	11.1	9000	100	488.5	QAE-EF02-101102-PKHSTNN-LB2W	2010/11/02	2010/09/23 2010/11/02	Rev.4/ Amd.2
HSTNN-LB2R	633733-421	10.8	4400	47	312.0	QAE-EF02-101111-PKHSTNN-LB2R	2010/11/11	2010/10/04 2010/11/11	Rev.4/ Amd.2
HSTNN-LB2S	633734-421	14.4	5200	73	421.0	QAE-EF02-101111-PKHSTNN-LB2S	2010/11/11	2010/10/04 2010/11/11	Rev.4/ Amd.2
HSTNN-LB3A	646656-421	10.8	2600	28	180.5	QAE-EF02-110302-PKHSTNN-LB3A	2011/03/02	2011/01/21 2011/03/02	Rev.4/ Amd.2
HSTNN-LB3B	646657-421	10.8	5200	55	325.0	QAE-EF02-110302-PKHSTNN-LB3B	2011/03/02	2011/01/21 2011/03/02	Rev.4/ Amd.2
HSTNN-LB3N	671567-421	11.1	5600	62	320.0	QAE-EF02-111215-PKHSTNN-LB3N	2011/12/15	2011/11/07 2011/12/15	Rev.5
HSTNN-LB3P	672326-421	11.1	8850	100	482.5	QAE-EF02-111215-PKHSTNN-LB3P	2011/12/15	2011/11/07 2011/12/15	Rev.5
HSTNN-LB4G	698751-421	10.8	4400	47	218.0	QAE-EF02-120605-PKHSTNN-LB4G	2012/06/05	2012/04/26 2012/06/05	Rev.5
HSTNN-LB4J	707616-421	10.8	4400	47	218.0	QAE-EF02-121008-PKHSTNN-LB4J	2012/10/08	2012/08/29 2012/10/08	Rev.5
HSTNN-LB4N	709988-421	10.8	4400	47	218.0	QAE-EF02-121026-PKHSTNN-LB4N	2012/10/26	2012/09/18 2012/10/26	Rev.5
HSTNN-LB4O	709989-421	11.1	5585	62	323.5	QAE-EF02-121026-PKHSTNN-LB4O	2012/10/26	2012/09/18 2012/10/26	Rev.5
HSTNN-LB0W	586007-421 586007-422	10.8	4400	47	308.0	QAE-EF02-121113-PKHSTNN-LB0W	2012/11/13	2012/10/04 2012/11/13	Rev.5
HSTNN-LB4U	717861-421 717861-422	14.8	2800	41.	231.0	QAE-EF02-130104-PKHSTNN-LB4	2013/01/04	2012/11/27 2013/01/04	Rev.5
HSTNN-LB5B	721895-421	7.4	3375	25	140.5	QAE-EF02-130124-PKHSTNN-LB5B	2013/01/24	2012/12/17 2013/01/24	Rev.5
HSTNN-LB4X	718676-421	10.8	5100	55	315.5	QAE-EF02-130206-PKHSTNN-LB4X	2013/02/06	2012/12/28 2013/02/06	Rev.5
HTSTN-LB5O	728250-421	7.4	4100	30	164.0	QAE-EF02-130514-PKHSTNN-LB5O	2013/05/14	2013/04/04 2013/05/14	Rev.5
HSTNN-LB5C	721896-421	7.4	2960	21.9	123.0	QAE-EF02-130522-PKHSTNN-LB5C	2013/05/22	2013/04/12 2013/05/22	Rev.5
HSTNN-LB4P	714762-421 714762-422	11.4	4450	50.0	269.0	QAE-EF02-130528-PKHSTNN-LB4P	2013/05/28	2013/04/18 2013/05/28	Rev.5
HSTNN-LB5R	738075-421	7.5	6910	51	271.5	QAE-EF02-130627-PKHSTNN-LB5R	2013/06/27	2013/05/20 2013/06/27	Rev.5
HSTNN-LB5S	740004-421	14.8	2800	41	198.0	QAE-EF02-130711-	2013/07/11	2013/06/03	Rev.5

	740004-422					PKHSTNN-LB5S		2013/07/11	
HSTNN-L01B	733057-421 733057-422	3.75	8740	31	197.5	QAE-EF02-130809- PKHSTNN-L01B	2013/08/09	2013/07/02 2013/08/09	Rev.5
HSTNN-LB4T	716726-421	11.25	4090	46	213.0	QAE-EF02-130902- PKHSTNN-LB4T	2013/09/02	2013/07/24 2013/09/02	Rev.5
HSTNN-LB6F	753330-421	7.5	3380	25	144.5	QAE-EF02-131113- PKHSTNN-LB6F	2013/11/13	2013/10/04 2013/11/13	Rev.5/ Amd.1
HSTNN-LB6G	756186-421	7.5	4100	30	170.0	QAE-EF02-131226- PKHSTNN-LB6G	2013/12/26	2013/11/18 2013/12/26	Rev.5/ Amd.1
HSTNN-LB6I	756478-421 756478-422	14.8	2800	41.4	221.0	QAE-EF02-140102- PKHSTNN-LB6I	2014/01/02	2013/11/25 2014/01/02	Rev.5/ Amd.1
HSTNN-LB6K	756480-421	15.0	3200	48	231.0	QAE-EF02-140102- PKHSTNN-LB6K	2014/01/02	2013/11/25 2014/01/02	Rev.5/ Amd.1
HSTNN-LB6L	760944-421	11.4	3820	43	223.0	QAE-EF02-140219- PKHSTNN-LB6L	2014/02/19	2014/01/10 2014/02/19	Rev.5/ Amd.1
HSTNN-LB6M	766801-421	11.4	3250	37	184.0	QAE-EF02-140710- PKHSTNN-LB6M	2014/07/10	2014/06/02 2014/07/10	Rev.5/ Amd.2
HSTNN-LB6O	787089-421	11.4	3250	37	184.0	QAE-EF02-140717- PKHSTNN-LB6O	2014/07/17	2014/06/09 2014/07/17	Rev.5/ Amd.2
HSTNN-LB6Q	796930-421	11.25	3200	36	184.0	QAE-EF02-140717- PKHSTNN-LB6O	2014/10/21	2014/09/11 2014/10/21	Rev.5/ Amd.2
HSTNN-LB6P	796219-421	7.6	4220	32	151.0	QAE-EF02-141105- PKHSTNN-LB6P	2014/11/05	2014/09/26 2014/11/05	Rev.5/ Amd.2
HSTNN-LB6R	800009-421	14.6	2850	41	220.0	QAE-EF02-141124- HSTNN-LB6R	2014/11/24	2014/10/15 2014/11/24	Rev.5/ Amd.2
HSTNN-LB6S	800010-421	15.2	3200	48.64	226.0	QAE-EF02-141124- HSTNN-LB6S	2014/11/24	2014/10/15 2014/11/24	Rev.5/ Amd.2
HSTNN-LB5Y	746458-421 746458-422	10.95	2792	31	179.0	QAE-EF02-141212- PKHSTNN-LB5Y	2014/12/12	2014/11/04 2014/12/12	Rev.5/ Amd.2
HSTNN-LB6U	807611-421 807611-422	10.95	2850	31	176.0	QAE-EF02-150105- HSTNN-LB6U	2015/01/05	2014/11/26 2015/01/05	Rev.5/ Amd.2
HSTNN-LB6V	807612-421 807612-422 807612-423	14.6	2850	41.6	225.0	QAE-EF02-150105- HSTNN-LB6V	2015/01/05	2014/11/26 2015/01/05	Rev.5/ Amd.2
HSTNN-LB6Y	810749-421	3.8	8780	33	152.0	QAE-EF02-150303- PKHSTNN-LB6Y	2015/03/03	2015/01/22 2015/03/03	Rev.5/ Amd.2
HSTNN-LB6Z	811063-421	10.68	5150	55	332.0	QAE-EF02-150303- HSTNN-LB6Z	2015/03/03	2015/01/22 2015/03/03	Rev.5/ Amd.2
HSTNN-LB7A	811064-421	10.68	5150	55	331.0	QAE-EF02-150305- HSTNN-LB7A	2015/03/05	2015/01/26 2015/03/05	Rev.5/ Amd.2
HSTNN-LB6W	808396-421	15.2	4210	64	300.0	QAE-EF02-150403-	2015/04/03	2015/02/24	Rev.5/

	808396-422					HSTNN-LB6W		2015/04/03	Amd.2
HSTNN-LB6X	808397-421 808397-422	11.4	8420	96	445.0	QAE-EF02-150406- HSTNN-LB6X	2015/04/06	2015/02/25 2015/04/06	Rev.5/ Amd.2
HSTNN-LB7B	818418-421	11.4	4220	48	223.0	QAE-EF02-150409- HSTNN-LB7B	2015/04/09	2015/03/02 2015/04/09	Rev.5/ Amd.2
HSTNN-LB2P	632113-421	14.6	5680	83	430.5	QAE-EF02-150526- HSTNN-LB2P	2015/05/26	2015/04/16 2015/05/26	Rev.5/ Amd.2
HSTNN-LB4Y	718677-421 718677-422	10.8	5100	55	311.0	QAE-EF02-150605- HSTNN-LB4Y	2015/06/05	2015/04/28 2015/06/05	Rev.5/ Amd.2
HSTNN-LB2Q	632114-421 632114-422	14.4	5200	75	432.0	QAE-EF02-150605- HSTNN-LB2Q	2015/06/05	2015/04/28 2015/06/05	Rev.5/ Amd.2
HSTNN-LB4K	707617-421	10.95	8490	93	484.0	QAE-EF02-150626- HSTNN-LB4K	2015/06/26	2015/05/19 2015/06/26	Rev.5/ Amd.2
HSTNN-LB2G	628370-421	10.95	5680	62	186.0	QAE-EF02-151204- B-HSTNN-LB7G	2015/07/18	2015/06/10 2015/07/18	Rev.5/ Amd.2
HSTNN-LB7C	831532-421 831532-422	11.52	5680	65	280.0	QAE-EF02-150721- PKHSTNN-LB7C	2015/07/21	2015/06/11 2015/07/21	Rev.5/ Amd.2
HSTNN-LB7H	849569-421	7.7	5350	41	167.0	QAE-EF02-151204- B-HSTNN-LB7H	2015/12/04	2015/10/27 2015/12/04	Rev.5/ Amd.2
HSTNN-LB7G	849568-421	11.55	3610	41	186.0	QAE-EF02-151204- B-HSTNN-LB7G	2015/12/04	2015/10/27 2015/12/04	Rev.5/ Amd.2
HSTNN-LB7E	849048-421	11.55	3610	41.5	183.0	QAE-EF02-151207- B-HSTNN-LB7E	2015/12/07	2015/10/28 2015/12/07	Rev.5/ Amd.2
HSTNN-LB7F	849049-421	11.55	5350	61.6	248.0	QAE-EF02-151207- B-HSTNN-LB7F	2015/12/07	2015/10/28 2015/12/07	Rev.5/ Amd.2
HSTNN-LB7M	859027-421	7.7	5680	43.7	125.0	QDI-160205-B- HSTNN-LB7M	2016/02/05	2015/12/29 2016/02/05	Rev.5/ Amd.2
HSTNN-LB7I	851477-421 851477-422	11.4	4210	48	245.0	QDI-160219-B- HSTNN-LB7I	2016/02/19	2016/01/12 2016/02/19	Rev.5/ Amd.2
HSTNN-LB7J	854047-421	11.55	4420	51	228.0	QDI-160225-B- HSTNN-LB7J	2016/02/25	2016/01/18 2016/02/25	Rev.5/ Amd.2
HSTNN-LB7K	854050-421	11.55	4250	49	215.0	QDI-160229-B- HSTNN-LB7K	2016/02/29	2016/01/20 2016/02/29	Rev.5/ Amd.2
HSTNN-LB7N	859470-421	7.7	4230	32.5	156.0	QDI-160314-B- HSTNN-LB7N	2016/03/14	2016/02/03 2016/03/14	Rev.5/ Amd.2
HSTNN-LB6T	801517-421 801517-422	11.4	4212	48	240.0	QDI-160425-B- HSTNN-LB6T	2016/04/25	2016/03/16 2016/04/25	Rev.5/ Amd.2
HSTNN-LB7P	843537-421 915230-421	11.55	3610	41.5	184.0	QDI-160720-B- HSTNN-LB7P	2016/07/20	2016/06/10 2016/07/20	Rev.5/ Amd.2
HSTNN-LB7L	859026-421 901308-421	11.55	5020	57.9	235.0	QDI-160919-B- HSTNN-LB7L	2016/09/19	2016/08/10 2016/09/19	Rev.5/ Amd.2

HSTNN-LB7S	916366-421	11.55	3615	41.7	184.0	QDI-161111-B-HSTNN-LB7S	2016/11/11	2016/10/04 2016/11/11	Rev.5/ Amd.2
HSTNN-LB7T	916367-421	11.4	4212	48.01	245.0	QDI-161111-B-HSTNN-LB7T	2016/11/11	2016/10/04 2016/11/11	Rev.5/ Amd.2
HSTNN-LB6J	756479-421 756479-422	14.6	3015	44	220.0	QDI-161122-B-HSTNN-LB6J	2016/11/22	2016/10/13 2016/11/22	Rev.5/ Amd.2
HSTNN-LB7V	919681-421	10.95	2850	31.2	175.0	QDI-161206-B-HSTNN-LB7V	2016/12/06	2016/10/27 2016/12/06	Rev.5/ Amd.2
HSTNN-LB7W	919682-421 919682-422	14.6	2850	41.6	225.5	QDI-161206-B-HSTNN-LB7W	2016/12/06	2016/10/27 2016/12/06	Rev.5/ Amd.2
HSTNN-LB4Z	718678-421 718678-422	10.95	9045	100	470.0	QDI-161209-B-HSTNN-LB4Z	2016/12/09	2016/11/01 2016/12/09	Rev.5/ Amd.2
HSTNN-LB7U	916368-421	11.55	4835	55.8	251.0	QDI-161209-B-HSTNN-LB7U	2016/12/09	2016/11/01 2016/12/09	Rev.5/ Amd.2
HSTNN-LB7R	916365-421	7.7	4835	37.2	156.0	QDI-161213-B-HSTNN-LB7R	2016/12/13	2016/11/03 2016/12/13	Rev.5/ Amd.2
HSTNN-LB7X	920046-421	11.55	3630	41.9	182.0	QDI-161220-B-HSTNN-LB7X	2016/12/20	2016/11/10 2016/12/20	Rev.5/ Amd.2
HSTNN-LB4R	716724-421 716724-422	11.25	4450	50	275.5	QDI-170105-B-HSTNN-LB4R	2017/01/05	2016/11/28 2017/01/05	Rev.5/ Amd.2
HSTNN-LB8A	922752-421	14.6	5700	83.22	410.0	QDI-170111-B-HSTNN-LB8A	2017/01/11	2016/12/02 2017/01/11	Rev.5/ Amd.2
HSTNN-LB8B	922753-421	14.4	5973	86	415.0	QDI-170112-B-HSTNN-LB8B	2017/01/12	2016/12/05 2017/01/12	Rev.5/ Amd.2
HSTNN-LB7Z	922200-421	10.8	5100	55.08	335.0	QDI-170316-B-HSTNN-LB7Z	2017/03/16	2017/02/06 2017/03/16	Rev.5/ Amd.2
HSTNN-LB8C	924843-421	7.7	5685	43.7	193.0	QDI-170323-B-HSTNN-LB8C	2017/03/23	2017/02/13 2017/03/23	Rev.5/ Amd.2
HSTNN-LB8D	924844-421	11.55	4271	49.33	195.0	QDI-170413-B-HSTNN-LB8D	2017/04/13	2017/03/06 2017/04/13	Rev.5/ Amd.2
HSTNN-LB8E	929066-421	11.55	5275	60.9	240.0	QDI-170511-B-HSTNN-LB8E	2017/05/11	2017/04/03 2017/05/11	Rev.5/ Amd.2
HSTNN-LB7Y	922199-421 922199-422	14.4	5100	73.44	334.0	QDI-170317-B-HSTNN-LB7Y	2017/03/17	2017/02/07 2017/03/17	Rev.5/ Amd.2
HSTNN-LB8G	932823-421	11.55	4330	50	195.0	QDI-170601-B-HSTNN-LB8G	2017/06/01	2017/04/24 2017/06/01	Rev.6
HSTNN-LB8H	932824-421	11.55	4850	56	215.0	QDI-170601-B-HSTNN-LB8H	2017/06/01	2017/04/24 2017/06/01	Rev.6
HSTNN-LB8F	931702-421	11.4	4212	48	234.0	QDI-170620-B-HSTNN-LB8F	2017/06/20	2017/05/11 2017/06/20	Rev.6
HSTNN-LB8I	103306-421	10.95	5700	62.4	320.0	QDI-170811-B-	2017/08/11	2017/07/04	Rev.6

						HSTNN-LB8I		2017/08/11	
HSTNN-LB8J	L09911-421	11.4	4212	48.01	225.5	QDI-171020-B-HSTNN-LB8J	2017/10/20	2017/09/12 2017/10/20	Rev.6
HSTNN-LB8L	L11421-421	11.55	3630	41.9	182.0	QDI-171031-B-HSTNN-LB8L	2017/10/31	2017/09/21 2017/10/31	Rev.6
HSTNN-LB8K	L12717-421	11.4	4212	48	215.0	QDI-171110-B-HSTNN-LB8K	2017/11/10	2017/10/03 2017/11/10	Rev.6
HSTNN-LB6N	778951-421	15.2	3820	58	306.0	QDI-180621-B-HSTNN-LB6N	2018/06/21	2018/05/14 2018/06/21	Rev.6
HSTNN-LB8M	L11421-422 L11421-423	11.55	3630	41.9	182.0	QDI-180918-B-HSTNN-LB8M	2018/09/18	2018/08/09 2018/09/18	Rev.6