

BLACK & DECKER - REMOVABLE- LITHIUM CELLS OR BATTERIES TEST SUMMARY  
IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

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Stanley Black & Decker's product lithium ion cell and batteries have been successfully tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3.

Performed Tests		Results
38.3.4.1	T1	Altitude Simulation
38.3.4.2	T2	Thermal Test
38.3.4.3	T3	Vibration
38.3.4.4	T4	Shock
38.3.4.5	T5	External Short Circuit
38.3.4.6	T6	Impact/Crush
38.3.4.7	T7	Overcharge
38.3.4.8	T8	Forced Discharge

The UN38.3 tests were performed by one of the following test houses and were tested to UN Manual Test and Criteria Revision 3 Amendment 1 or subsequent revisions or amendments.

Shanghai Research Institute of Chemical Industry Testing Centre 2779 Guangfu West Road, Putuo District, Shanghai, China 200062 E: <a href="mailto:center@ghs.cn">center@ghs.cn</a> T: 021-31765555 U: <a href="http://www.ghs.cn/">http://www.ghs.cn/</a>	Vkan Certification & Testing Co., Ltd. No.3,Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou P.R. China 510663 E: <a href="mailto:office@cvc.org.cn">office@cvc.org.cn</a> T: 020-32293888 U: <a href="http://www.cvc.org.cn">http://www.cvc.org.cn</a>
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**Product Test Information**

Model Numbers	Physical Description	Battery Weight (kg)	Wh Rating	Test report Number	Test Report Date
BL1510/LBXR12	3S1P Removable Battery Pack	0.18	18/16.2	RZUN2013-1220	11/26/2013
				RZUN2017-3536	1/10/2018
				RZUN2015-0634	3/9/2016
BCB001/BDCB12	3S1P Removable Battery Pack	0.25	18/16.2	1118020186	3/15/2018
				RZUN2017-0998	4/27/2017
BL2018ST	5S1P Removable Battery Pack	0.39	40/36	1116100078	11/28/2016
LB2X3020/BL3018		0.64	60/54	1115080147	10/26/2015

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	5S2P Removable Battery Pack			1118030032	4/25/2018
LB2X4020/BL4018	5S2P Removable Battery Pack	0.65	80/72	1113070201	9/10/2013
				1119060244	7/30/2019
				1119070380	9/2/2019
				1119070147	8/28/2019
BL5018	5S2P Removable Battery Pack	0.65	90	TBD	TBD
LBX16/BL1314	4S1P Removable Battery Pack	0.30	20.8/18.7	RZUN2013-1122	11/8/2013
				RZUN2013-1121	11/8/2013
LBXR12/BL1512	3S1P Removable Battery Pack	0.19	18/16.2	RZUN2016-1878	7/7/2016
				RZUN2019-2154	6/14/2019
				RZUN2016-1124	3/29/2016
				RZUN2017-2244	10/31/2017
				RZUN2016-0695	3/3/2016
LBXR16/BL1514	4S1P Removable Battery Pack	0.29	24/21.6	RZUN2017-2245	10/31/2017
				RZUN2016-0694	3/3/2016
				RZUN2016-0664	3/1/2016
				RZUN2013-1126	11/8/2013
				RZUN2013-1116	11/8/2013
				RZUN2013-1124	11/8/2013
				RZUN2013-1125	11/8/2013
				RZUN2013-1115	11/8/2013
LBXR20/BL1518	5S1P Removable Battery Pack	0.36	30/22	RZUN2013-1128	11/8/2013
				RZUN2013-1118	11/8/2013
				RZUN2018-1984	8/3/2018
				RZUN2013-1127	11/8/2013
				RZUN2013-1117	11/8/2013
				RZUN2016-0374	1/21/2016
				1119030448	5/7/2019
				RZUN2016-2533	9/26/2016
				RZUN2016-0693	3/3/2016
				RZUN2019-1548	5/9/2019
				1113070221	9/4/2013
				1118060342	7/11/2018
				1118050337	7/11/2018
				1112020080	4/5/2012
				1112030174	5/10/2012
				1116080078	9/22/2016
LBXR2020/BL2018	5S1P Removable Battery Pack	0.37	40/36	RZUN2016-2411	8/26/2016
				RZUN2017-1799	8/10/2017
				RZUN2017-1978	8/10/2017
				1113090137	11/15/2013
				1119070379	9/2/2019

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				1119060150	7/15/2019
				1119060151	7/16/2019
LBXR20BT/BL1518ST	5S1P Removable Battery Pack	0.39	30/27	1115080109	10/21/2015
				1117060195	7/27/2017
LBXR2520/BL2518	5S1P Removable Battery Pack	0.37	45	RZUN2019-0031	2/19/2019
				RZUN2019-2041	6/13/2018
				1117020090	3/20/2017
				RZUN2019-2042	6/13/2019
				1115080172	10/26/2015
				1118100157	11/27/2018
				1118120253	3/1/2019
LBX20	5S1P Removable Battery Pack	0.36	26	RZUN2013-1123	11/8/2013
LBX1560	15S1P Removable Battery Pack	1.04	90/81	1116060134	7/18/2016
				1117060189	7/27/2017
LBX2560/BL2554	15S1P Removable Battery Pack	1.04	150/135	1116080056	9/8/2016
BL1554	15S1P Removable Battery Pack	1.04	99	1116100042	11/9/2016
				RZUN2016-2096	5/23/2016
LBX1540/BL15362	10S1P Removable Battery Pack	0.69	60/54	1115080015	9/15/2015
				1119070013	7/30/2019
LBX2040/BL20362	10S1P Removable Battery Pack	0.69	80/72	1115060170	8/3/2015
				1119070014	7/30/2019
				RZUN2018-3176	12/11/2018
LBX2540/BL2536	10S1P Removable Battery Pack	0.69	100/90	1115080170	10/28/2015
				RZUN2018-3175	12/11/2018
LBXR2036	10S1P Removable Battery Pack	0.69	80/72	RZUN2016-0900	3/15/2016
LBXR36	10S1P Removable Battery Pack	0.69	60/54	1114020113	4/10/2014
				1115050172	7/2/2015

**Signature**

**Name, Title**     **Steve Cao, Compliance Manager**