

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

Product Manufacturer: Stanley Black & Decker, Inc.
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Telephone: 1-860-225-5111 **Emergency:** 1-888-698-2571
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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 | Pass |
| 38.3.4.2 | T2 | Thermal Test | Pass |
| 38.3.4.3 | T3 | Vibration | Pass |
| 38.3.4.4 | T4 | Shock | Pass |
| 38.3.4.5 | T5 | External Short Circuit | Pass |
| 38.3.4.6 | T6 | Impact/Crush | Pass |
| 38.3.4.7 | T7 | Overcharge | Not Applicable |
| 38.3.4.8 | T8 | Forced Discharge | Pass |

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.

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