



LITHIUM BATTERIES TEST SUMMARY (Class 9)

IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	Product Manufacturer	Makita Corporation 3-11-8, Sumiyoshi-cho, Anjo, Aichi, 446-8502, Japan Phone : +81 (0)566-98-1711 www.makita.com
2	Model	Detachable Lithium-ion Batteries – Rechargeable Makita Type : BL Separable Lithium-ion Batteries – Rechargeable Makita Type : PDC For detailed list of models see product test information table
3	Voltage rating	18V / 36V (40Vmax.) / 57.6V (64Vmax)
4	Ah rating	4.0Ah / 5.0Ah / 6.0Ah / 8.0Ah / 9.0Ah / 9.8Ah / 12.0Ah / 33.5Ah / 43.55Ah
5	Wh rating	108.0Wh / 144.0Wh / 162.0Wh / 180.0Wh / 216.0Wh / 230.4Wh / 288.0Wh / 564.48Wh / 1206Wh / 1567.8Wh

List of Tests Conducted and Results

PERFORMED TESTS		RESULTS
38.3.4.1 T1	Altitude Simulation	Passed
38.3.4.2 T2	Thermal Test	Passed
38.3.4.3 T3	Vibration	Passed
38.3.4.4 T4	Shock	Passed
38.3.4.5 T5	External Short Circuit	Passed
38.3.4.7 T7	Overcharge	Passed

(Note that tests T6 and T8 are not applicable to batteries.)



The UN 38.3 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.

<p>Tohoku Murata Manufacturing Co., Ltd. 1-1 Shimosugishita, Takakura, Hiwada-machi, Koriyama-shi, Fukushima, 963-0531 Japan Phone: +81-24-955-7770 e-mail: tmm-qa-compliance@murata.com Website: https://www.murata.com/en-global/group/tohokumurata</p>	<p>Samsung SDI Co., Ltd 467, Beonyeong-ro, Seobuk-gu, Cheonan-si, Chungcheongnam- do, Korea Phone: +82-41-560-3114 e-mail: lian55.kim@samsung.com Website: http://samsungsdi.co.kr</p>
<p>CQC Intime Testing Technology Co.,Ltd. East Taihu Technology and Finance City, No.1368 Wuzhong Dadao Rd., Wuzhong Economic Development Zone, Suzhou, Jiangsu. Phone: 0512-66303623 e-mail: cqc_jszlb@126.com Website: http://www.cqc-it.com</p>	<p>Celxpert(Kunshan) Energy Co.Ltd NO.1111,Hanpu Road,Yushan Town,Kunshan City,Jiangsu Province,P.R.China Phone: +86-0512-57775999-8239 e-mail: Frank_Gao@cn.celxpert.com Website: http://www.celxpert.com.tw</p>
<p>Murata Energy Device Wuxi Co., Ltd. No.27 Changjiang Road, New District,Wuxi,Jiangsu Province, 214028 P.R.C. Phone: +86-510-8523-9120 e-mail: mdw-qa-comp@murata.com Website: https://www.murata.com/en-global/group/tohokumurata</p>	<p>Shanghai Research Institute of Chemical Industry Testing Center No.345 East Yunling Road, Putuo, Shanghai,China Phone: +86-21-3176555 e-mail: battery@ghs.cn Website: http://www.ghs.cn</p>
<p>HCT CO.,LTD. 74, Seoicheon-ro 578beon-gil, Majang- myeon, Icheon-si, Gyeonggi-do, 17383 KOREA Phone:031-645-6300 e-mail:E_safety@hct.co.kr Website: http://www.hct.co.kr/</p>	<p>Shenzhen NTEK New Energy Technology Co., Ltd. Room 101, Building C, Fenda Hi-Tech Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China. Phone: +86(0)-755-3699 5529 e-mail: Quality@ntekbat.org.cn Website: http://www.ntekbat.org.cn</p>
<p>Shenzhen Tiansu Calibration and Testing Co., Ltd. B/1,4, NO.2 Jinlong Road, Longgang District, Shenzhen, China Phone: 0755-89457984 e-mail: tsjc@tiansu.org Website: www.tiansu.org</p>	



Description of Battery and Test Information

Model numbers	Physical Description	Battery weight (kg)	Wh rating	Test report number	Test report date	Applicable UN Numbers acc. to UN Model Regulations
BL1860B 18V 6.0Ah	Detachable slide in lithium-ion accumulator	0.67	108.0	2017126J17835	7-Dec-2017	UN3480/ UN3481
BL1860B 18V 6.0Ah	Detachable slide in lithium-ion accumulator	0.65	108.0	P22072800401	22-Aug-2022	UN3480/ UN3481
BL1890 18V 9.0Ah	Detachable slide in lithium-ion accumulator	0.97	162.0	RZUNJX2024-0036	12-Dec-2024	UN3480/ UN3481
BL18120 18V 12.0Ah	Detachable slide in lithium-ion accumulator	1.3	216.0	RZUN2024-6161-TS	12-Nov-2024	UN3480/ UN3481
BL4040 40Vmax. 4.0Ah	Detachable slide in lithium-ion accumulator	1.04	144.0	202217050418	20-Sep-2022	UN3480/ UN3481
BL4040 40Vmax. 4.0Ah	Detachable slide in lithium-ion accumulator	0.98	144.0	BATT-4790193533-A-1	24-Dec-2021	UN3480/ UN3481
BL4040F 40Vmax. 4.0Ah	Detachable slide in lithium-ion accumulator	0.94	144.0	202117050820	15-Sep-2021	UN3480/ UN3481
BL4050F 40Vmax. 5.0Ah	Detachable slide in lithium-ion accumulator	1.31	180.0	1120050246	28-Jun-2020	UN3480/ UN3481
BL4080F 40Vmax. 8.0Ah	Detachable slide in lithium-ion accumulator	1.90	288.0	1121030246	16-Apr-2021	UN3480/ UN3481
BL4080H 40Vmax. 8.0Ah	Detachable slide in lithium-ion accumulator	1.83	288.0	QA-24004	11-Jul-2024	UN3480/ UN3481
BL6440 57.6V 4.0Ah	Separable lithium-ion accumulator	2.20	230.4	1120090534	28-Sep-2020	UN3480/ UN3481
BL64100 57.6V 9.8Ah	Separable lithium-ion accumulator	3.20	564.48	1122110551	20-Dec-2022	UN3480/ UN3481



PDC1200 36V 33.5Ah	Separable lithium-ion accumulator	8.80	1206	HCT-BA-2002-RE016	13-Feb-2020	UN3480/ UN3481
PDC1500 36V 43.55Ah	Separable lithium-ion accumulator	10.9	1567.8	HCT-BA-2304-RE003	13-Apr-2023	UN3480/ UN3481