

LITHIUM BATTERIES TEST SUMMARY

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

1	Product Manufacturer	Robert Bosch Power Tools GmbH Max-Lang-Straße 40-46 70771 Leinfelden-Echterdingen Germany +49-711-400-40990 kontakt@bosch.de www.bosch-pt.com
2	Model	Bosch Battery Pack GBA 18V
3	Voltage rating	18V
4	Ah rating	1.3 Ah / 1.5Ah / 2.0Ah / 2.5Ah 2.6Ah / 3.0Ah / 4.0Ah 5.0Ah /5.5Ah 6.0Ah / 6.3Ah / 7.0Ah 8.0Ah 12.0Ah
5	Wh rating	23.4Wh / 27.0 Wh / 36.0 Wh / 45.0 Wh 46.8 Wh / 54.0 Wh 72.0 Wh / 90.0 Wh / 99.0Wh 108.0Wh / 113.4Wh / 126.0Wh / 144.0Wh 216.0Wh

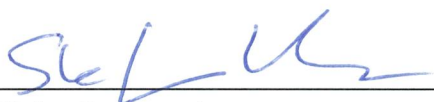
This model of Lithium ion batteries have been successfully tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3

PERFORMED TESTS		RESULTS
38.3.4.1 T1	Altitude Simulation	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.)

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Revision Number: 5.0



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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.

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LITHIUM CELLS OR BATTERIES TEST SUMMARY
IN ACCORDANCE WITH SUB-SECTION 38.3
OF UN MANUAL OF TESTS AND CRITERIA
Product 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	Delivered at max. 30% State of Charge
GBA 18V 1.3 Ah	Detachable slide in lithium-ion accumulator	0,328 0,336 0,323	23.4	D1HQ0003 70711 1151-11-MM-11-PP001_1	18.01.2011 06.07.2011 21.10.2011	UN3480/ UN3481	yes
GBA 18V 1.5 Ah BAT610 BAT610G BAT611	Detachable slide in lithium-ion accumulator	0,335 0,330 0,324 0,329 0,347 0,333	27.0	UN_T1-T5 und T7_MR_L_18V_L_G3_1Ah5_SDI15R_1st_Pre Pilot 90711 1087-12-MM-12-PP001 7191118958-EEC15 7191186692 - EEC18 7191179565 - EEC18 7191221970-EEC19	01.09.2010 06.07.2011 27.07.2012 12.08.2015 16.03.2018 23.07.2018 24.10.2019	UN3480/ UN3481	Yes
GBA 18V 2.0 Ah BAT612 B20V20	Detachable slide in lithium-ion accumulator	0,530 0,351 0,349 0,332 0,354 0,359 0,343 0,342 0,355 0,338 0,354 0,337 0,346	36.0	UN_014_19 1156-12-MM-MM-13-PP001 1157-12-MM-13-PP001 1102-13-MM-13-PP001 7191110841-EEC15-03_18V 2.0Ah (RX135) Test Report 7191129259-EEC16 7191138517-EEC16 7191195781 - EEC18 7191185676 - EEC18 CRSSFTY/00001(AD1)/20 28253332 001 CRSSFTY/00002/20 CRSSFTY/00013/20	01.09.2014 07.01.2013 08.01.2013 09.09.2013 15.04.2015 28.01.2016 22.06.2016 12.11.2018 13.07.2018 29.05.2020 25.06.2020 19.06.2020 31.07.2020	UN3480/ UN3481	Yes
GBA 18V 2.5 Ah	Detachable slide in lithium-ion accumulator	0,547	45.0	7191122247-EEC15	03.11.2015	UN3480/ UN3481	Yes
GBA 18V 2.6 Ah	Detachable slide in lithium-ion accumulator	0,580 0,590	46.8	22042011 110711	20.04.2011 07.07.2011	UN3480/ UN3481	Yes
GBA 18V 3.0 Ah	Detachable slide in lithium-ion accumulator	0,542 0,596 0,598 0,590 0,591 0,360	54.0	7191133214-EEC16 7191182265 - EEC18 1169-10-MM-11-PP002 UN_T1-T5 T7_MR_XL_18V_3Ah0_SDI15Q_G2_SCM 7191156955 - EEC17 7191141107-EEC16	29.03.2016 11.10.2018 19.01.2011 31.10.2010 06.04.2017 22.06.2016	UN3480/ UN3481	Yes
GBA 18V 4.0 Ah	Detachable slide in lithium-ion	0,797 0,797 0,609	72.0	7191140894 - EEC16 7191125542-EEC15 1170-12-MM-13-PP001	12.07.2016 30.09.2015 14.01.2013	UN3480/ UN3481	yes



	accumulator	0,600 0,612 0,623 0,611 0,618 0,600 0,600 0,620 0,527 0,537 0,602 0,603		7191121396-EEC15 1104-13-MM-13-PP001 7191129263-EEC16 UN_014_17 7191109813-EEC15 7191145395 - EEC16 7191145984 - EEC16 7191146196 - EEC16 7191205584 - EEC19 UN_TR 28246834 001 7191198628 - EEC18 28253238 001	28.09.2015 11.09.2013 28.01.2016 29.07.2014 15.04.2015 19.08.2016 05.10.2016 14.10.2016 28.01.2019 10.10.2018 19.10.2018 25.06.2020		
GBA 18V 5.0 Ah	Detachable slide in lithium-ion accumulator	0,623 0,630 0,626 0,620 0,626 0,632 0,667 0,605	90.0	7191145588-EEC16 7191145985 - EEC16 UN_014_15 UN_T1-T5 T7_MR XL 18V 5Ah0 SCM Sanyo NSX 133 PgP CW43_2013 7191133829-EEC16 7191212277 - EEC19 28253283 001 CRSSFTY/00015/20	30.08.2016 06.10.2016 18.06.2014 21.11.2013 30.03.2016 24.06.2019 23.06.2020 23.09.2020	UN3480/ UN3481	Yes
GBA 18V 5.5 Ah	Detachable slide in lithium-ion accumulator	0,900	99.0	28252834 001	06.05.2020	UN3480/ UN3481	Yes
GBA 18V 6.0 Ah	Detachable slide in lithium-ion accumulator	0,830 0,628 0,634 0,638 0,629	108.0	7191145489 - EEC16 7191091638_EEC14 7191143768-EEC16 7191187518 - EEC18 7191200830 - EEC18	18.08.2016 12.08.2014 22.09.2016 04.09.2018 29.11.2019	UN3480/ UN3481	Yes
GBA 18V 6.3 Ah	Detachable slide in lithium-ion accumulator	0,803	113.4	7191136781-EEC16	13.05.2016	UN3480/ UN3481	Yes
GBA 18V 7.0 Ah	Detachable slide in lithium-ion accumulator	0,833	126.0	TR 28238951 001	09.06.2017	UN3480/ UN3481	Yes
GBA 18V 8.0 Ah	Detachable slide in lithium-ion accumulator	0,990 0,986	144.0	259732-TL7-2 28247959 002	14.03.2019 26.03.2019	UN3480/ UN3481	Yes
GBA 18V 12.0 Ah	Detachable slide in lithium-ion accumulator	1,380	216.0	259043-TL7-1	12.02.2019	UN3480/ UN3481	Yes



Model numbers	Physical Description	Battery weight (kg)	Wh rating	Test report number	Test report date	Applicable UN Numbers acc. to UN Model Regulations	Delivered at max. 30% State of Charge
GBA18V 40	Detachable slide in lithium-ion accumulator	0,527 0,537	72.0	7191205584 - EEC19 UN_TR 28246834 001	28.01.2019 10.10.2018	UN3480/ UN3481	yes
GBA18V 63	Detachable slide in lithium-ion accumulator	0,803	113.4	7191136781-EEC16	13.05.2016	UN3480/ UN3481	Yes
GBA18V 80	Detachable slide in lithium-ion accumulator	0,990 0,986	144.0	259732-TL7-2 28247959 002	14.03.2019 26.03.2019	UN3480/ UN3481	yes
GBA18V 120	Detachable slide in lithium-ion accumulator	1,380	216.0	259043-TL7-1	12.02.2019	UN3480/ UN3481	yes

All lithium batteries and cells shown in before-mentioned table were designed and manufactured in accordance with Section 2.9.4 of the UN Recommendations on the Transport of Dangerous Goods.