

## 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
2	Model	Bosch Battery Pack PBA 18V
3	Voltage rating	18V
4	Ah rating	1.3 Ah / 1.5Ah / 2.0Ah / 2.5Ah 3.0Ah / 4.0Ah / 5.0Ah / 6.0Ah
5	Wh rating	23.4Wh / 27.0 Wh / 36.0 Wh / 45.0 Wh 54.0 Wh 72.0 Wh / 90.0 Wh / 108.0Wh

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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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
PBA 18V 1.3 Ah	Detachable slide in lithium-ion accumulator	0,334 0,330	23.4	MT0019716 UN_T1-T5 and T7_Skil_Pioneer_18V_1Ah3_G1_SD13P_Axeon	05.02.2010 01.12.2010	UN3480/ UN3481	yes
PBA 18V 1.5 Ah	Detachable slide in lithium-ion accumulator	0,343 0,330 0,350 0,350 0,342 0,360 0,360 0365 0,342	27.0	MT0019770 18VWOLVES_G2_CW16_2010_UN_T1-T5 und T7 Wolves_18V_G2_Sanyo_W2_McP_UN_Rev5 MT0038731 7191200827 - EEC18 28224222002 28224222002 28252538 001 7191232329-EEC20	19.01.2010 07.05.2010 02.08.2012 03.03.2011 14.01.2019 29.03.2017 29.03.2017 07.04.2020 15.04.2020	UN3480/ UN3481	yes



PBA 18V 2.0 Ah	Detachable slide in lithium-ion accumulator	0,360 0,350 0,353 0,353 0,380 0,353 0,353 0,365 0,363	36.0	UN_T1-T5 T7_Wolves 18V PP5 SampleB.pdf TR 28229046 004 Wolves 18V with bosc overcharge FINAL signed.pdf HU21FOSK 001 HU21FOSK 002 HU21FOSK 003 HU21FOSK 004 HU245SJM 001 CPSFTY/00051/23 HU245SJM 002	26.07.2013 29.11.2016 07.02.2022 07.02.2022 10.04.2022 09.03.2023 12.01.2024 20.02.2024 16.04.2024	UN3480/ UN3481	yes
PBA 18V 2.5 Ah	Detachable slide in lithium-ion accumulator	0,360 0,362 0,362 0,362 0,362 0,400 0,362 0,65	45.0	28226658001 28226658005 28226658006 HU215B2B 001 HU22A9U7 002 HU23X6CD 001 HU23X6CD 002 TR HU23X6CD 003	27.03.2015 02.08.2016 10.12.2020 07.12.2021 17.01.2023 22.11.2023 30.01.2024 04.03.2024	UN3480/ UN3481	yes
PBA 18V 3.0 Ah	Detachable slide in lithium-ion accumulator	0,363 0,360 0,362 0,362 0,362 0,575	54.0	28239766001 28252539001 HU21TU56 001 HU21TU56 002 HU21TU56 002 HU22VSCV 002	10.07.2017 07.04.2020 10.08.2021 07.02.2022 07.07.2022 09.11.2022	UN3480/ UN3481	yes
PBA 18V 4.0 Ah	Detachable slide in lithium-ion accumulator	0,640 0,575 0,630 0,575 0,575 0,670 0,575 0,575 0,500 0,648	72.0	28237202001 28252403001 HU21ZXY3 001 HU21KAZX 001 HU21KAZX 002 HU22SXUN 001 HU22SXUN 002 HU21KAZX 003 HU23RVRJ 001 HU24ETYL 001	29.03.2017 19.03.2020 24.08.2021 24.11.2021 09.12.2021 10.06.2022 19.09.2022 17.04.2023 07.12.2023 16.04.2024	UN3480/ UN3481	yes
PBA 18V 5.0 Ah	Detachable slide in lithium-ion accumulator	0,669 0,668 0,650 0,668 0,654	90.0	28248162002 HU22PXJ7 001 HU225L1H 001 HU225L1H 002 HU24GBC5 001	26.03.2019 25.01.2022 10.06.2022 26.09.2022 19.04.2024	UN3480/ UN3481	yes
PBA 18V 6.0 Ah	Detachable slide in lithium-ion accumulator	0,668 0,664 0,680	108.0	28238953001 HU21WWIU 001 HU2213WX 001	06.06.2017 10.08.2021 10.06.2022	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.