

LITHIUM BATTERIES TEST SUMMARY

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

1	Product Manufacturer	GARDENA Germany AB PO Box 160 89 SE-103 92 Stockholm www.gardena.com www.flymo.com
2	Model* * For a full list of products which use any of these battery packs please refer to pages 3-4.	GARDENA: Battery Pack PBA 18V: 14902, 14903, 14905. Flymo: Battery Pack PBA 18V: 534089301, 534147001, 534147101, 531382501, 531382601, 531382701.
3	Voltage rating	18V
4	Ah rating/s	2.0Ah / 2.5Ah / 4.0Ah
5	Wh rating/s	36.0 Wh / 45.0 Wh / 72.0 Wh

These models 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.)

Revision Date: 2024-10-22	Revision Number: 1.4
Name, Title: Andreas Ochs, Senior Director R&D Electronics & CC Compliance	Signature: <u>Andreas Ochs</u> Andreas Ochs (22. Oktober 2024 14:25 GMT+2) Place and Date of issue: Ulm, 2024-10-22

Address
GARDENA Germany AB
PO Box 160 89
SE-103 92 Stockholm

Visiting Address
Drottninggatan 2

Contact
Telephone: 0049 731 490 123
(GARDENA Customer Service)
www.gardena.com/contact

Registered office
Ulm, Germany
HRB Ulm 1315

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.

Robert Bosch Power Tools GmbH PT/EST Max-Lang Str. 40-46 70771 Leinfelden-Echterdingen Germany +49 (0)711-400-40990 kontakt@bosch.de www.bosch-pt.com	TÜV Süd PSB Pte. Ltd No.1 Science Park Drive Singapore 118221 Singapore +65 6427 4700 Info.sg@tuvsud.com www.tuev-sued.de/company/locations/asia
SAMSUNG SDI CO LTD 467 BEONYEONG-RO SEOBUK-GU CHEONAN-SI, CHUNGCHEONGNAM-DO 31086 KOREA +82-41-560-3114 sdimaster@samsung.com www.samsungsdi.com	Tüv Rheinland InterCert Kft. Vaci ut 48/A-B 1132 Budapest Hungary +36 1461 1100 tuv@hu.tuv.com www.tuv.hu

Product Test Information

Model numbers	Physical Description	Battery weight [kg]	Wh rating	Test report number	Test report date	Applicable UN Numbers acc UN- DGP	Delivered at max. 30% State of Charge
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 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

Full list of battery packs and products where these battery packs are included in (Flymo on next page):



Art.No. *	Model
14902	Battery PBA 18V/36 P4A
14903	Battery PBA 18V/45 P4A
14905	Battery PBA 18V/72 P4A
14600	Submersible pump 2000/2 Clear 18V P4A Set
14602	RainwaterTankPump2000/2 18V P4A Set
14620	Lawnmower HandyMower 22/18V P4A Set
14621	Lawnmower HandyMower 22/18V P4A Set + 8735-20 Grass Shear
14621	Lawnmower HandyMower 22/18V P4A Set
14621	Lawnmower PowerMax 32/36V P4A Set
14630	Lawnmower PowerMax 30/18V P4A Set
14632	Lawnmower PowerMax 32/18V P4A Set
14638	Lawnmower PowerMax 37/36V P4A Set
14646	Lawnmower PowerMax Duo 46/36V P4A
14700	Trimmer EasyCut 23/18V P4A Set
14701	Trimmer ComfortCut 23/18V P4A Set
14702	Trimmer SmallCut 23/18V P4A Set
14703	Trimmer PowerTrim 30/18V P4A
14704	Trimmer EasyTrim 25/18V P4A
14730	Hedgetrimmer ComfCut 50/18V P4A Set
14731	Hedgetrimmer ComfCut 60/18V P4A Set
14732	Tel.Hedgetrimmer THS 42/18V-P4A Set
14733	Hedge Trimmer EasyCut 40/18V P4A Set
14750	Grass- & Shrubshear PowerCut 20/18V P4A Set
14770	Tel. Pruner TCS 20/18 P4A Set
14772	Pole Saw EasyCut 110/18V P4A Set
14774	Pole Saw HighCut 250/18V P4A Set
14776	Pole Saw HighCut 360/18V P4A Set
14790	Chainsaw PowerSaw 250/18V P4A
14800	Cleaner AquaClean 18V P4A Set
14820	EasyWeed 1800/18V P4A Set
14840	AquaBrush Compact 02/18V P4A Set
14841	AquaBrush Patio 03/18V P4A Set
14842	AquaBrush Universal 18V P4A Set
14890	Blower PowerJet 18V P4A Set
14895	Blower PowerJet Collect 18V P4A
14906	Starter-Kit P4A QC+1x2,5Ah
14906	Starter-Kit P4A PBA 18V/45 + AL 1830
14907	Starter-Kit P4A QC+2x2,5Ah
14908	Starter-Kit P4A QC+1x4,0Ah
14909	Starter-Kit P4A PBA 18V/36 + AL1810 CV
14910	Starter-Kit P4A PBA 18V/45 + AL1810 CV
18642	Wall-Mounted Hose Box PowerRoll XL 18V P4A Set
18647	Wall-Mounted Hose Box PowerRoll XXL 18V P4A Set

* The actual GARDENA product designation/article number is typically supplemented by a two-digit country or customer variant code "-XX", where "XX" stands for numbers from "01" to "99". This test report is valid for all such country and customer variants.



Product Code	Model
534089301 / 531382501	Battery PBA 18V/2.0Ah P4A
534147001 / 531382601	Battery PBA 18V/2.5Ah P4A
534147101 / 531382701	Battery PBA 18V/4.0Ah P4A
9705383-01	Lawnmower EasiStore 340R Kit 2.0
9705385-01	Lawnmower EasiStore 380R Kit 2.0
9705387-01	Lawnmower UltraStore 340R Kit 2.5
9705389-01	Lawnmower UltraStore 380R Kit 2.5
9705390-01	Lawnmower UltraStore 380R Kit 4.0
9707035-01	Lawnmower 18V SimpliMow 300 Kit 4.0
9707037-01	Lawnmower 18V SimpliMow 320 Kit 4.0
9705442-01	Trimmer 18V EasiTrim 250 Kit 2.0
9705446-01	Trimmer 18V UltraTrim 260 Kit 2.0
9706385-01	Trimmer 18V EasiTrim Plus 230 Kit 2.0
9705434-01	Hedgetrimmer 18V EasiCut 450 Kit 2.0
9705438-01	Hedgetrimmer 18V UltraCut 500 Kit 2.0
9705439-01	Hedgetrimmer 18V UltraCut 500 Kit 2.5
9705440-01	Hedgetrimmer 18V UltraCut 500 Kit 4.0
9705458-01	Telescopic Trimmer 18V UltraCut Reach 420 Kit 2.5
9707256-01	Grass-& Shrub-Shear 18V SimpliShear Kit 2.0
9679828-01	EasiClean Li Kit 2.0
9707203-01	Easi Weeder 18 V Kit 2.0
9706383-01	Blower 18V EasiClear 100 Kit 2.5