EPTA
THE EUROPEAN POWER TOOL ASSOCIATION

Husqvarna Group

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 7454 S-103 92 SWEDEN
2	**Model**	ClassicCut 9853 (include Li-ion cylindrical cell 09853-00.640.00))
3	**Voltage rating**	$3.6V_{nom}$
4	**Ah rating**	2.5 Ah
5	**Wh rating**	9.0 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: 2020-01-20	Revision Number: 2.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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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.

AnTek Certification Inc. 7F. No.351, Yangguang St., Neihu District Taipei City, TAIWAN Tel: 02-8752-3779 atc@atclab.com.tw http://www.antek.net.cn	SIRCI Testing Center West entrance, No.345 East Yun Ling Road, Shanghai Tel : 021-52815377-0713/0714/0717/0718 Fax : 021-52815377-0716/0745 Email: msds123@gmail.com
Intertek Testing Services Taiwan Ltd. 5F, No. 423, Ruiguang Road, Neihu District Taipei 114 TAIWAN Phone: +886 2 6602 2888 Fax: +886 2 6602 2889 www.intertek-twn.com	SAMSUNG SDI Safety Center 508 Sungsungdong, Cheonan Chungcheongnamdo, Korea

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
09853-00.640.00	Lithium-Ion rechargerable battery	~ 47g	9	SDI-UN-150318-01	18.3.2015	UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	Gras Trimmer 9822 (include Lithium battery pack 09822-00.620.00)
3	**Voltage rating**	14.4V_{nom}
4	**Ah rating**	2.0 Ah
5	**Wh rating**	28,8 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: 2020-01-20	Revision Number: 2.0
Name, Title: Manfred Kugler, Compliance Manager	Signature: M. Kugler

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
09822-00.620.00	Lithium battery pack 4S1P	~ 221g	28.8	1118050133	22.6.2018	UN3481

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

1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	8885 (ClassiCut) 8886 (Classic Cut) 8893 (ComfortCut) 8895 (Comfort Cut) 8898 (ComfortCutPlus)
3	**Voltage rating**	3,6V /7,2 V / 10,8 V
4	**Ah rating**	2.15 Ah
5	**Wh rating**	7.85 Wh /10,44Wh/ 23,54Wh

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: 2020-01-20	Revision Number: 2.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Battery university.eu GmbH Am Sportplatz 30 63791 Karlstein (Main) Germany Phone: +49 (0)6188 9956-700 mail@batteryuniversity.eu www, batteryuniversity.eu	South China National Center of Metrologygy Guangdong Institute of Metrology No.30 Songbaidong Street, Guangyuanzhong Road, Guangzhou, P.R China -510405 Phone: (0860)86594172 www.scm.com/cn mail: scm@scm.com.cn

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
8885	Lithium-Ion rechargerable battery 1S1P	~ 43g	7,85	111610075	18.10.2016	UN3481
8886	Lithium-Ion rechargerable battery 1S2P	~ 43g	7,85	111610075	18.10.2016	UN3481
8893	Lithium-Ion rechargerable battery 2S1P	~90g	10,44	BU-00057.2010-1.1	29.11.2010	UN3481
8898	Lithium-Ion rechargerable battery 3S1P	~130g	23,54	DCW201605132	22.12.2016	UN3481
8895	Lithium-Ion rechargerable battery 2S1P	~90g	10,44	BU-00057.2010-1.1	29.11.2010	UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	8133 /1559 (Aqua Contour)
3	**Voltage rating**	3,6V
4	**Ah rating**	2,15Ah
5	**Wh rating**	7,85Wh

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: 2020-1-20	Revision Number: 1.0
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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
8133-20 1559-29 (Aqua Contour)	Battery Pack 1S1P	~ 43g	7,85	111610075 (same as 8885)	18.10.2016	UN3481

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

1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	4025 (cylinder Lawnmower/Spindelmäher) (include detachable battery 8838)
3	**Voltage rating**	25,2V
4	**Ah rating**	3,2 Ah
5	**Wh rating**	80,6Wh

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: 2020-1-20	Revision Number: 1.0
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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
8838	Detachable Battery Pack 7S2P	972g	80,6	STRD1310032S	5.11.2013	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	System-Akku BLi-40/100 (9842) System-Akku BLi-40/160 (9842)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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: 2020-01-20	Revision Number: 2.0
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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	System-Akku BLi-18 (9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-20	Revision Number: 2.0
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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839-20 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839-20 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839-20 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839-20 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839-20 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839-20 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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LITHIUM BATTERIES TEST SUMMARY

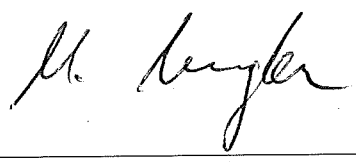
IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	Hedge Trimmer 9836,include battery pack 09836-00.620.00
3	**Voltage rating**	14.4V_{nom}
4	**Ah rating**	2.0 Ah
5	**Wh rating**	28.8 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: 2020-01-20	Revision Number: 2.0
Name, Title: Manfred Kugler, Compliance Manager	Signature: 

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
09836-00.620.00	Lithium battery pack 4S1P	~ 221g	28.8	1118050132	22.6.2018	UN3481

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1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	9339/9340 BalconyVac (include battery pack of 09839-00.660.00)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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.)

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839	Battery Pack 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3481

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1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	8835 (18V) 8836 (36V) 8837 (36V) 8839 (18V) 8025 (Wandschlauchbox)
3	**Voltage rating**	18V / 36V / 36V / 18V / 18.5V
4	**Ah rating**	2.6 Ah / 3,0 Ah /4,5 Ah / 1.6 Ah / 1,6Ah
5	**Wh rating**	46.8Wh / 108 Wh /162Wh /28,8 Wh /29,6 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: 2020-1-20	Revision Number: 2.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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AnTek Certification Inc. 7F. No.351, Yangguang St., Neihu District Taipei City, TAIWAN Tel: 02-8752-3779 atc@atclab.com.tw http://www.antek.net.cn	SIRCI Testing Center West entrance, No.345 East Yun Ling Road, Shanghai Tel : 021-52815377-0713/0714/0717/0718 Fax : 021-52815377-0716/0745 Email: msds123@gmail.com
Shenzhen SEM.Test Technology Co., Ltd 1/F, Building A, Hongwei Industrial Park,Liuxian 2nd Road. Baoán District, Shenzhen , PRC (518101) www.semtest.com.cn	Battery university.eu GmbH Am Sportplatz 30 63791 Karlstein (Main) Germany Phone: +49 (0)6188 9956-700 mail@batteryuniversity.eu www, batteryuniversity.eu

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
8835	Detachable Battery Pack 5S2P	650g	46,8	BU-00049.2009-1.1	26.12.2009	UN3480/ UN3481
8836	Detachable Battery Pack 10S2P	1700g	108	BU-00002.2010-1.1	1.3.2010	UN3480/ UN3481
8837	Detachable Battery Pack 10S3P	2200g	162	BU-00001.2010-1.1	1.2.2010	UN3480/ UN3481
8839	Detachable Battery Pack 5S2P	447g	28,8	STRD1310033S	5.11.2013	UN3480/ UN3481
8025-20 2148-12.010.02	Detachable Battery Pack 5S1P	650g	29.,6	BU-2012-000369-UN	19.12.2012	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	AccuCut Li- (9850 / 9851) AccuCut Li (Set) (9852)
3	**Voltage rating**	$3,6V_{nom}$
4	**Ah rating**	2,15 Ah
5	**Wh rating**	7,74 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: 2020-01-20	Revision Number: 2.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Intertek Testing Services Taiwan Ltd. 5F, No. 423, Ruiguang Road, Neihu District Taipei 114 TAIWAN Phone: +886 2 6602 2888 Fax: +886 2 6602 2889 www.intertek-twn.com	LG Chem, ltd. / RESEARCH PARK 188 Munjiro, Yuseong-gu, Daejeon, 305-738, REPUBLIC OF KOREA Telephone : +82-10-3099-3724 E-mail : juhongpark@lgchem.com

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9850/9851	Lithium-Ion rechargerable battery 1S1P	~ 43g	7.74	QAE-EF02-150320-CY18650F1L	04.01.2016	UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	ComfortCut Li (9856) ComfortCut Li (Set) (9858) (include 09856-00.640.00 (Li-ion cylindrical cell)
3	**Voltage rating**	$3,6V_{nom}$
4	**Ah rating**	3,0 Ah
5	**Wh rating**	10,8 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: 2020-01-20	Revision Number: 2.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Intertek Testing Services Taiwan Ltd. 5F, No. 423, Ruiguang Road, Neihu District Taipei 114 TAIWAN Phone: +886 2 6602 2888 Fax: +886 2 6602 2889 www.intertek-twn.com	SAMSUNG SDI Safety Center 508 Sungsungdong, Cheonan Chungcheongnamdo, Korea

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
09856-00.640.00	Lithium-Ion rechargerable battery	~ 48g	10.8	SDI-UN-140531-01	31.5.2014	UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9842 System-Akku BLi-40/100 and 9843 System-Akku BLi40/160
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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: 2020-01-17	Revision Number: 1.0
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Intertek Testing Services Taiwan Ltd. 5F, No. 423, Ruiguang Road, Neihu District Taipei 114 TAIWAN Phone: +886 2 6602 2888 Fax: +886 2 6602 2889 www.intertek-twn.com	

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9878-XX Battery Trimmer ComfortCut Li-18/23 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9876-XX Battery Trimmer EasyCut Li-18/23 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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LITHIUM BATTERIES TEST SUMMARY

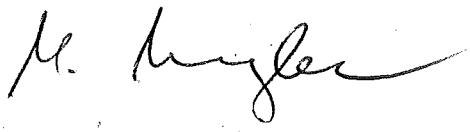
IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	1748-XX Set Klarwasser-Tauchpumpe 2000/2 Li-18 (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature: 

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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LITHIUM BATTERIES TEST SUMMARY

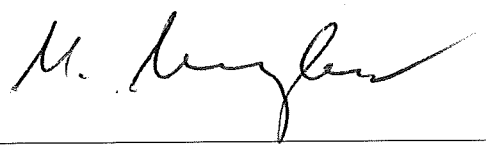
IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	1749-XX Set Regenfasspumpe 2000/2 Li-18 (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature: 

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	5023-XX Battery Lawnmower Handy Mower Li-18/22 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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AnTek Certification Inc. 7F. No.351, Yangguang St., Neihu District Taipei City, TAIWAN Tel: 02-8752-3779 atc@atclab.com.tw http://www.antek.net.cn	SIRCI Testing Center West entrance, No.345 East Yun Ling Road, Shanghai Tel：021-52815377-0713/0714/0717/0718 Fax：021-52815377-0716/0745 Email: msds123@gmail.com
Intertek Testing Services Taiwan Ltd. 5F, No. 423, Ruiguang Road, Neihu District Taipei 114 TAIWAN Phone: +886 2 6602 2888 Fax: +886 2 6602 2889 www.intertek-twn.com	

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	5033-XX Battery Lawnmower PowerMax Li-40/32 Ready-To-Use Set (include System-Akku BLi-40/100 9842 or BLi-40/160 9843)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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LITHIUM BATTERIES TEST SUMMARY

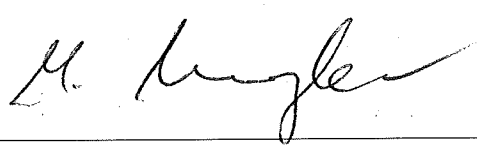
IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	5038-XX Battery Lawnmower PowerMax Li-40/37 Ready-To-Use Set (include System-Akku BLi-40/100 9842 or BLi-40/160 9843)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature: 

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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LITHIUM BATTERIES TEST SUMMARY

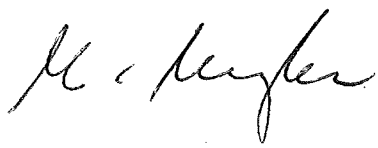
IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

1	**Product Manufacturer**	**GARDENA Germany AB** PO BOX 7454 S-103 92 SWEDEN
2	**Model**	5039-XX Battery Lawnmower PowerMax™ Li-18/32 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature: 

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Intertek Testing Services Taiwan Ltd. 5F, No. 423, Ruiguang Road, Neihu District Taipei 114 TAIWAN Phone: +886 2 6602 2888 Fax: +886 2 6602 2889 www.intertek-twn.com	

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	5041-XX Battery Lawnmower PowerMax Li-40/37 Ready-To-Use Set (include System-Akku BLi-40/100 9842 or BLi-40/160 9843)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	8866-XX Battery Telescopic Pruner TCS Li-18/20 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	8881-XX Battery Telescopic Hedge Trimmer THS Li-18/42 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9335-XX Battery Blower AccuJet 18-Li Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9338-XX Battery Blower PowerJet Li-40 Ready-To-Use Set (include System-Akku BLi-40/100 9842 or BLi-40/160 9843)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Husqvarna Group

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.

AnTek Certification Inc. 7F. No.351, Yangguang St., Neihu District Taipei City, TAIWAN Tel: 02-8752-3779 atc@atclab.com.tw http://www.antek.net.cn	SIRCI Testing Center West entrance, No.345 East Yun Ling Road, Shanghai Tel : 021-52815377-0713/0714/0717/0718 Fax : 021-52815377-0716/0745 Email: msds123@gmail.com
Intertek Testing Services Taiwan Ltd. 5F, No. 423, Ruiguang Road, Neihu District Taipei 114 TAIWAN Phone: +886 2 6602 2888 Fax: +886 2 6602 2889 www.intertek-twn.com	

Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9341-XX Battery Cleaner Pressure Washer AquaClean Li-40/60 Ready-To-Use Set (include System-Akku BLi-40/100 9842 or BLi-40/160 9843)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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.)

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9360-XX Battery Blower PowerJet Li-18 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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.)

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9827-XX Battery Trimmer PowerCut Li-40/30 Ready-To-Use Set (include System-Akku BLi-40/100 9842 or BLi-40/160 9843)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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.)

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9837-XX Battery Hedge Trimmer ComfortCut Li-18/50 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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.)

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9838-XX Battery Hedge Trimmer ComfortCut Li-18/60 Ready-To-Use Set (include System-Akku BLi-18 9839)
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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: 2020-01-17	Revision Number: 1.0
Name, Title: Manfred Kugler, Compliance Manager	Signature:

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	System Battery BLi-18 9839-XX
3	**Voltage rating**	$18V_{nom}$
4	**Ah rating**	2.6 Ah
5	**Wh rating**	46.8 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.)

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1805054-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1804055-001	30.5.2018	UN3480/ UN3481
9839 (silver)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1804056-001	30.5.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1709102-001	2.11.2017	UN3480/ UN3481
9839 (black)	Detachable Battery Pack US18650 5S1P	~ 470g	46,8	TW1712021-003	27.2.2018	UN3480/ UN3481
9839 (black)	Detachable Battery Pack INR18650 5S1P	~ 470g	46,8	TW1712021-001	11.1.2018	UN3480/ UN3481

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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 7454 S-103 92 SWEDEN
2	**Model**	9860-XX Battery Hedge Trimmer PowerCut Li-40/60 Ready-To-Use Set (include System-Akku BLi-40/100 9842 or BLi-40/160 9843)
3	**Voltage rating**	$36V_{nom}$ / 40 V_{max}
4	**Ah rating**	2.6 Ah /4,2 Ah
7	**Wh rating**	93.6 Wh / 155,4 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.)

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Product Test Information

Model numbers	Physical Description	Battery weight	Wh rating	Test report number	Test report date	Applicable UN Numbers
9842 (BLi-40/100)	Detachable Battery Pack 18650 10S1P	800g	93,6	1116040273	12.7.2016	UN3480/ UN3481
9843 (BLi-40/160)	Detachable Battery Pack 18650 10S2P	1200g	155,4	1116040274	12.7.2016	UN3480/ UN3481