



BISSELL Homecare, Inc.

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LITHIUM CELLS OR BATTERIES TEST SUMMARY IN ACCORDANCE WITH SUB-SECTION 38.3 OF UN MANUAL OF TESTS AND CRITERIA

Revision Date: 14 December 2020 **Revision Number:** 009

Product Manufacturer: **BISSELL International Trading Company B.V.**
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BISSELL product lithium ion cells and 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	Pass
38.3.4.2 T2	Thermal Test	Pass
38.3.4.3 T3	Vibration	Pass
38.3.4.4 T4	Shock	Pass
38.3.4.5 T5	External Short Circuit	Pass
38.3.4.6 T6	Impact / Crush	Pass
38.3.4.7 T7	Overcharge	Pass
38.3.4.8 T8	Forced Discharge	Pass

The UN38.3 tests were performed by one of the following test houses and were tested to UN Manual Test and Criteria Revision 5 Amendment 2 or subsequent revisions or amendments.

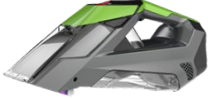
Vkan Certification & Testing Co., Ltd. No. 3, Tianaiyi Road, Kaitai Avenue Science City, Guangzhou China E: office@cvc.org.cn T: 020 32293888 U: www.cvc.org.cn	Dongguan CTL Electromagnetic Technology Co., Ltd. Room 107, No. 2, Block 1, Area 1 Headquarters Road No. 2, Songshanhu Hi-tech Development Zone, Dongguan, Guangdong China E: richard.chen@dgctl-lab.com T: (0769) 22893710 U: www.dgctl-lab.com
Attestation of Global Compliance 2F., No. 2 Building, Huafeng No. 1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen China E: agc@agc-cert.com T: (86-755) 29081955 U: www.agc-cert.com	Shenzhen Sem. Test Technology Co., Ltd. 1/FI, Room 101, Building 1, Hongwei Industrial Park, Liuxian'er Road, Block 70 Bao'an District, Shenzhen, Guangdong, China E: admin@semtest.com.cn T: +86-0755-33663308 U: www.semtest.com.cn
Shanghai Research Institute of Chemical Industry Testing Centre Reception Hall, Testing Center, West entrance, 345 East Yunling Road, Shanghai 200062 E: msds123@gmail.com T: 021-52802587 U: www.ghs.cn	Shenzhen STS Test Services Co., Ltd. 1/F., Building B, Zhuoke Science Park, No. 190 Chongging Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China E: sts@stsapp.com T: +86-755 3688 6288 U: www.stsapp.com
Guangzhou MCM Certification and Testing Co., Ltd 1F No. 13, Zhong San Section, ShiGuang Road Panyu District, Guangzhou City, Guangdong Province, China E: markmiao@mcmtek.com T: 0086-20-3477 7662 U: www.mcmtek.com	Shenzhen Alpha Product Testing Co., Ltd. Building I, No. 2, Lixin Road, Fuyong Street Bao'an District, 518103 Shenzhen, Guangdong, China E: e011@a-lab.cn T: 4008-3008-95 U: www.a-lab.cn
UL-CCIC Company Limited Guangzhou Branch Electronic Building, Parage Electronic Industrial Park No. 8 Nanyun Er Road Guangzhou Science Park, Guangzhou, China E: customerservice.cn@cn.ul.com T: +86-20-3213 1000 U: www.ul.com	Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building C, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, 518126, Shenzhen, China E: Coco@ntek.org.cn T: +86-755-6115 6588 U: www.ntek.org.cn

Product Test Information

Model “(+)” means blank or letter or number with no functional difference.

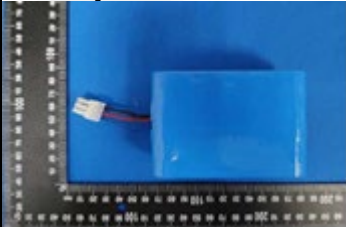
Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2837+, 2842+, 2846+, 2877+, 2982+, 2991+, 2992+	Pet Stain Eraser 2.0 Cleaner P2953 Unit 41X20X12 cm Battery 5X5X10 cm 	0.115kg	18	RZUN2020-0738	2020-04-16
3050+ Battery	Battery 7.2V Li-ion P2953 Battery 5X5X10 cm 	0.115kg	18	RZUN2020-0738	2020-04-16
2002+, 2003+, 2005+, 2054+	Pet Stain Eraser Cleaner P437-B1 (Black) Unit 41X20X12 cm Battery 8X4X4.5 cm 	0.147kg	15.12	RZUN2016-5040	2017-01-16
2002+, 2003+, 2005+, 2054+	Pet Stain Eraser Cleaner P437-B1 Alt Cell (Black) Unit 41X20X12 cm Battery 8X4X4.5 cm 	0.143kg	14.4	4788306930-2	2018-02-10
2006+, 2164+	Pet Stain Eraser Cleaner P437-B2 (White) Unit 41X20X12 cm Battery 8X4X4.5 cm 	0.240kg	30.24	RZUN2016-5041	2017-01-16

					
2006+, 2164+	Pet Stain Eraser Cleaner P437-B2 Alt Cell (White) Unit 41X20X12 cm Battery 8X4X4.5 cm 	0.228kg	28.2	4788306930-1	2018-01-23
1954+, 2133+, 2162+, 1959+, 2045+	Bolt Vacuum, P481-14 Unit 114 cm height Battery 14X4X2 cm 	0.194kg	30.96	A001B20170808054	2017-08-21

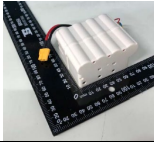
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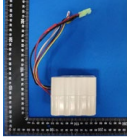
Multi-cell rechargeable lithium ion batteries $\leq 100\text{Wh}$

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
1971+, 2023+	Multireach Vacuum P481-25 Unit 114 cm height Battery 20X6X4 cm 	0.330kg	54.2	A001B20170502019	2017-06-07
2291+, 2294+, 2581+	ICONpet Robot Vacuum P488 Unit 34X11 cm Battery 10X3X2 cm 	0.5467kg	86.4	RZUN2018-2647	2018-09-17
2753 Battery, 2758 Battery	Robot part Battery Pack P488 ICONpet Battery 10X3x2 cm 	0.5467kg	86.4	RZUN2018-2647	2018-09-17

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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2001+, 1998+	Hard Floor Expert Cleaner P2783/460 Unit 35 cm height Battery 10X4X4 cm 	0.620kg	72	115030198	2015-05-29
3175+, 3177+, 3178+, 3281+,	ICON Pet Vacuum P3025 Unit 114 cm height Battery 6.5X3X1.8 cm Prismatic White 	0.426kg	75.6	RZUN2020-3609	2020-11-19
1626397 S30Q Battery	Battery Pack P3025 ICON Pet Battery 6.5X3X1.8 cm Prismatic White 	0.426kg	75.6	RZUN2020-3609	2020-11-19
2288+, 2774+, 2289+, 2899+, 1622228 Service Assembly	ICON Pet Vacuum P2822-21 P2961-21 Unit 114 cm height Battery 9X3X2 cm Prismatic White 	0.375kg	65	RZUN2018-2637-M1 RZUN2018-2638-M2	2019-01-04 2020-08-18

1618212 Battery, 1620773 Battery, 61- 0088-010 Battery	Battery Pack P2822-21 ICON Pet Battery 9X3X2 cm Prismatic White 	0.375kg	65	RZUN2018-2637- M1 RZUN2018-2638- M2	2019-01- 04 2020-08- 18
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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2602+, 2746+, 2894+, 2953+, 2962+, 1621618 Service Assembly	ICON Pet Vacuum Li-ion Battery P2882-25 P2961-25 Unit 114 cm height Battery 9X3X2 cm Prismatic White 	0.420kg	75.6	RZUN2018-2639- M1 RZUN2018-2640- M2	2019-01- 04 2020-08- 18
1618213 Battery, 1621430 Battery, 61- 0088-012 Battery	Battery Pack P2882-25 ICON Pet P2961-25 Battery 9X3X2 cm Prismatic White 	0.420kg	75.6	RZUN2018-2639- M1 RZUN2018-2640- M2	2019-01- 04 2020-08- 18
1984+, 2144+, 2524+, 1047+, 2167+, 3046+, SC7100+	AirRam Vacuum P429 P2862 Unit 114 cm height Battery 10X8X8 cm	0.459kg	43.2	XB20160727U01	2016-08- 11

					
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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
1610319 Battery, 3006+ Battery, 1600852 Battery	AirRam MK2 Battery Assembly P429 P2862 Battery 10X8X8 cm 	0.459kg	43.2	XB20160727U01	2016-08-11
1985+, 2168+, 2169+, 2151+	Multi Hand Vacuum Li-ion Battery P2862 Unit 37X26X10 cm Battery 14X8.5X5 cm 	0.406kg	44	STRD1607045S	2016-07-05
1610329, 1615991, 1612573 Battery	Multi MK2 Battery Pack P2862 Battery 14X8.5X5 cm	0.406kg	44	STRD1607045S	2016-07-05

					
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Multi-cell rechargeable lithium ion batteries $\leq 100\text{Wh}$

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2307+, 2315+, 2240+, 2309+	SpinWave Cordless P2915 Unit 114 cm height Battery 11X8X5 cm Black plastic cement shell 	0.278kg	39	1117120273 1117110271	2017-12-26 2018-01-23
2554+, 2595+, 2597+, 2590+, 2596+, 2593+, 2765+, 2767+, 2858+, 2854+, 2855+, 2857+, 2582+, 2588+	CrossWave Cordless Max Wet Dry Vacuum P2921 Unit 114 cm height Battery 20X7X5 cm 	0.640kg	90	RZUN2019-0059	2019-01-28

1625756 Battery	Battery Pack P2921 CrossWave Cordless Max Battery 20X7X5 cm 	0.640kg	90	RZUN2019-0059	2019-01-28
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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2482+, 2286+	PowerLifter Adapt Ion Vacuum P2922-10 Unit 114 cm height Battery 7X6X2 cm 	0.208kg	21.6	1118030241	2018-03-21
3061+, 3190+, 3191+	PowerLifter Adapt Ion Vacuum P2922-10A Unit 114 cm height Battery 7X6X2 cm Black plastic cement shell 	0.208kg	27	1120060525	2020-06-28
2275+, 3034+, 3079+, 2387+, 2390+, 2284+,	Pet Hair Eraser Adapt Ion XRT Vacuum P2922-14	0.195kg	28.8	117120310	2017-12-29

2278+	Unit 114 cm height Battery 15X5X4 cm				
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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
3192+, 3079+	Pet Hair Eraser Adapt Ion XRT Vacuum P2922-14A Unit 114 cm height Battery 15X5X4 cm	0.195kg	36	1120060524	2020-06-28
2279+	Multireach Essential Vacuum P2922-18 Unit 114 cm height Battery 15X5X4 cm	0.309kg	36	1118030240	2018-03-21

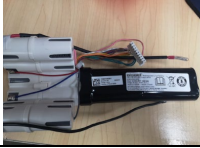


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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2907+, 2900+, 2903+, 2921+, 2897+, 3080+	Pet Hair Eraser Slim Vacuum P2983 Unit 114 cm height Battery 115 mm X 95 mm 	0.350 kg	54 Wh	1120040566	2020-04-29
1624302 S25R Battery	Battery Part P2983 Battery 115 mm X 95 mm 	0.350 kg	54 Wh	1120040566	2020-04-29
2389+	Pet Hair Eraser 10V Vacuum P2923-10 Unit 114 cm height Battery 7X6X2 cm	0.167kg	21.6	1118040025	2018-04-02

					
2279+	MultiClean Hand Vacuum P2923-18 Unit 12 cm height 	0.276kg	36	1118070008	2018-07-02
2983+, 3018+	MultiReach Ion XL Vacuum P2902A Unit 114 cm height Battery 21X10X6 cm Irregular Shape 	0.504kg	99	AGC0149720030 1UA01 AGC0149720070 4UA01	2020-03-31 2020-08-15
1624923 Battery, 1624923 LM29 Battery	MultiReach Ion XL Vacuum P2902A Battery 21X10X6 cm Irregular Shape 	0.504kg	99	AGC0149720030 1UA01 AGC0149720070 4UA01	2020-03-31 2020-08-15

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Multi-cell rechargeable lithium ion batteries $\leq 100\text{Wh}$

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2551+, 2582+, 2588+	CrossWave Cordless Wet Dry Vacuum P2934 Unit 114 cm height Battery 20X7X5 cm 	0.651kg	90	RZUN2018-2682	2018-12-11
1618930 Battery	Battery Part P2934 CrossWave Cordless Battery 20X7X5 cm 	0.651kg	90	RZUN2018-2682	2018-12-11
2955+, 3011+, 3176+, 3129+, 3041+, 3055+, 3068+, 3073+, 3078+, 2832+,	CrossWave Cordless X7 Wet Dry Vacuum P2954 Unit 112 cm height Battery 20X7X5 cm 	0.467kg	75.6	RZUN2020-1492	2020-07-21

1625227S30Q Battery, 162437S30Q Battery, 1625384S30Q Battery, 1625383S30Q Battery, 1625382S30Q Battery		0.467kg	75.6	RZUN2020-1492	2020-07-21
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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2601+, 2503+, 2908+, 2933+, 3110+, 2859+, 3115+, 2931+	Robot Vacuum P2949 – P3001 – P3011 Unit 32X8 cm Battery 18.24X65.22mm Green and Prismatic 	0.188kg	36	STS1801143B01 S2006280380100 1	2018-01-18 2020-07-20
1618526 Battery, INR18650 M26-4S1P Battery, 1624434 Battery International	Battery Mid Tier P2949 Battery 7X4X4 cm Green and Prismatic 	0.188kg	36	STS1801143B01 S2006280380100 1	2018-01-18 2020-07-20

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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
1974+, 2142+, 1927+, 2147+	SmartClean Robot Vacuum P2950 Unit 32X8 cm Battery 13X4X2 cm 	0.190kg	41.1	GDCTL20171103 0001A	2018-01-17
1616749 Battery	Battery 14.68V Li Ion P2950 SmartClean Robot Battery 13X4X2 cm 	0.190kg	41.1	GDCTL20171103 0001A	2018-01-17

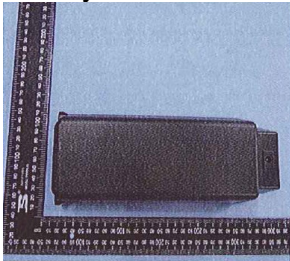
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Multi-cell rechargeable lithium ion batteries ≤ 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2986+	Aero Slim Hand Vacuum P3008 Unit 22X7 cm Battery 6.8X4X2.5 cm 	0.110 kg	14.4	RZUN2019-2371	2019-08-19
VP200ESK, VP20A Battery	Victory Handheld Cordless Sprayer Unit 44X17X35 cm 	0.285 kg	48.96	A1912225-C01-R11	2017-06-29
VP300ES, VP20A Battery	Victory Back Pack Cordless Sprayer Unit hand 22X17X35 cm 	0.285 kg	48.96	A1912225-C01-R11	2017-06-29
VP20A Battery 3400 mAh 14.4V	Victory VP20A Battery Black cuboid battery 	0.285 kg	48.96	A1912225-C01-R11	2017-06-29
VP20B Battery 6800 mAh 14.4V	Victory VP20B Battery Black cuboid battery 	0.462 kg	97.92	A1912225-C01-R12	2017-06-29

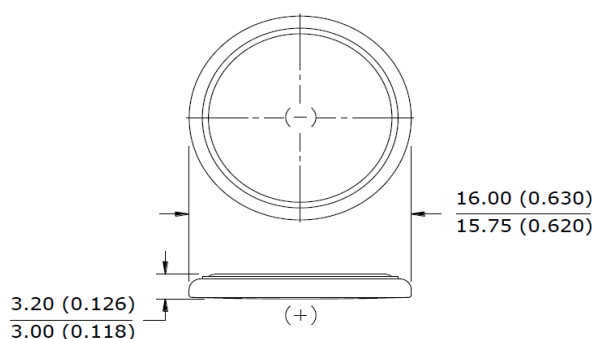
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Multi-cell rechargeable lithium ion batteries > 100Wh

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2166+	MultiReach Ion XL Vacuum P2902 Unit 114 cm height Battery 21X10X6 cm 	0.519kg	102.6	A001B20170424065	2017-05-16
SC7500A	7500 Series Com Upright Vacuum P2970 Unit 114 cm height Battery 30X10X5 cm 	0.875kg	124.8	STRD1510002S	2015-10-12
Battery, 16509CP, SC50A	Battery Pack P2970 Battery 30X10X5 cm 	0.875kg	124.8	STRD1510002S	2015-10-12

Industry Standard Dimensions

mm (inches)



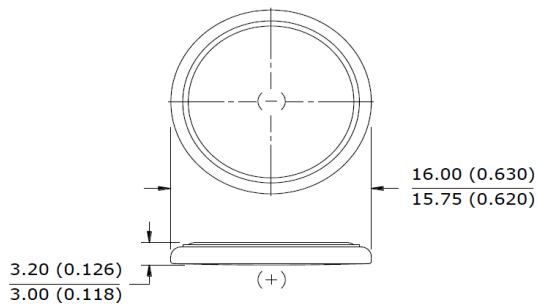
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Primary Button Cell non-rechargeable lithium metal batteries

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
1650+, 2087+, 2281+, 2461+, 1941+, 1900+, 1869+	Pet Hair Eraser Vacuum, LED Crevice Tool Accessory P446 Unit 114 cm height Button cell batteries in tool Tool = 26X5X4 cm 	0.002kg	NA	1118070091	2018-08-23
1607896 Tool	Tool – Crevice Tool P466 26X5X4 cm 	0.002kg	NA	1118070091	2018-08-23

Industry Standard Dimensions

mm (inches)



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Primary Button Cell non-rechargeable lithium metal batteries

Model Numbers	Physical Description	Battery Weight (kg) Mass	Watt Hour (Wh) Rating	Test Report Number	Test Report Date
2513+	Little Green ProHeat, LED Spray Crevice Tool Accessory P2907 Unit 39 cm height Button cell batteries in tool Tool 25X6X4 cm 	0.002kg	NA	LJKJ20180901U08	2018-09-25
1614188 Tool	Tool-LED Spraying Crevice P2907 Tool 25X6X4 cm 	0.002kg	NA	LJKJ20180901U08	2018-09-25

Name & Title of the authority:

Bart de Vos
Managing Director – BISSELL International Trading Company

Signature:

Date:

__December 16, 2020