Module 3: Product Description

Appendix 3.1.2-2: Testing report for battery cell - UL 1642

In this appendix the following current UL records for the current manufacturers of the batteries in IQOS 3 System are provided:

1. Holder battery:
   - Supplier Zhangzhou Aucopo Energy Technology Co., Ltd.: UL record dated 10 January 2018
   - Supplier (b) (4) UL record dated 13 June 2019
2. Charger battery:
   - Supplier (b) (4) UL record dated 16 January 2020
   - Supplier (b) (4) UL record for battery cell (b) (4) (b) (4) dated 21 December 2018
   - Supplier (b) (4) UL record dated 8 January 2019

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BBCV2.MH61586
Lithium Batteries - Component

If you notice a change to your BBCV2 Listing Card, click here to learn more.

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Lithium Batteries - Component

See General Information for Lithium Batteries - Component

ZHANGZHOU AUCOPO ENERGY TECHNOLOGY CO LTD MH61586
Nanjing Hi-tech Industrial Zone, Nanjing
Zhangzhou, Fujian 363601 CHINA

Model No.	Secondary Type[d]	Max Charging Current (Ic), mA	Max Charging Voltage, V dc[e]	Test Compliance[f]
(b) (4)	Lithium ion	(b) (4)		1
	Lithium ion			1
	Lithium ion			1
	Lithium ion (Pouch)			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion (Pouch)			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion (Prismatic)			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion			1
	Lithium ion (Pouch)			1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Pouch)		1
	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
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	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1

(b) (4)	Lithium ion (Pouch)	(b) (4)	1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		3
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion (Pouch)		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1

(b) (4)	Lithium ion (Cylindrical)	(b) (4)	1
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		2, 3
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		2, 3
	Lithium ion (Cylindrical)		2, 3
	Lithium ion (Cylindrical)		2, 3
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion		3
	Lithium ion		3
	Lithium ion		3
	Lithium ion		3
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
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	Lithium ion		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		3
	Lithium ion		1
	Lithium ion		3
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1

[d] These cells and batteries are rechargeable. The circuitry containing these cells or batteries is to contain protective components intended to protect the cells or batteries from currents in excess of the maximum charging current and voltage indicated.

[e] The Max Charging Voltage noted in the column is the maximum voltage employed during the abnormal charging test of the secondary lithium ion cell. However, the maximum recommended charging voltage for lithium ion cells is 4.2 V, unless indicated otherwise.

[f] Test Compliance - The cells comply with the tests in UL 1642 as noted:

1 - Complies with all single-cell tests

2 - Complies with all single-cell tests except the impact test

3 - Complies with all single-cell tests except the projectile test

4 - Complies with all single-cell tests except the crush test

Marking: Company name or tradename "aucopo" , Recognized Component Mark, (b) (4), the cell or smallest shipping package containing the cell.
Last Updated on 2018-01-10

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UL Product iQ™

(b) (4) - LITHIUM BATTERIES - COMPONENT

Lithium Batteries - Component

See General Information for Lithium Batteries - Component

(b) (4)

(b) (4)

Model No.	Secondary Type[d]	Max Charging Current (Ic), mA	Max Charging Voltage, V dc[e]	Test Compliance[f]
(b) (4)	Lithium ion (Pouch)	(b) (4)		1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1

	Lithium ion		2, 4
	Lithium ion (Pouch)		2
	Lithium ion (Cylindrical)		1
	Lithium ion (Pouch)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		2, 3
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
(b) (4)	Lithium ion (Cylindrical)	**(b) (4)**	1
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		3
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Pouch)		2
	Lithium ion		4
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1

	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Pouch)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		2
(b) (4)	Lithium ion (Cylindrical)	**(b) (4)**	2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		2
	Lithium ion (Pouch)		1
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		2

	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		2
	Lithium ion (Cylindrical)		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Pouch)		1
(b) (4)	Lithium ion (Pouch)	**(b) (4)**	1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Cylindrical)		3, 4
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1

	Lithium ion (Cylindrical)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion (Pouch)		1
(b) (4)	Lithium ion	(b) (4)	2
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		2

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		4
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		2, 4
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		4
	Lithium ion		1
	Lithium ion (pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		4
	Lithium ion (Pouch)		1
	Lithium ion		2, 4
	Lithium ion (Pouch)		1
	Lithium ion (pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		4
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1

	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
(b) (4)	Lithium ion (Pouch)	**(b) (4)**	1
	Lithium ion		2
	Lithium ion		4
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2, 4
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		4

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion		4
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2, 4
	Lithium ion		1
	Lithium ion		1
	Lithium ion		4
	Lithium ion		2, 4
	Lithium ion		2
	Lithium ion		2, 4
	Lithium ion		4
	Lithium ion		1
	Lithium ion (pouch)		2
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		4
	Lithium ion		2
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2

	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		4
	Lithium ion		4
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		4
(b) (4)	Lithium ion	**(b) (4)**	1
	Lithium ion		1
	Lithium ion		2, 4
	Lithium ion		1
	Lithium ion		1
	Lithium ion (pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		4
	Lithium ion		2, 4
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		4

	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		4
	Lithium ion (Pouch)		1
	Lithium ion		4
	Lithium ion		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		4
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		2
(b) (4)	Lithium ion (Pouch)	**(b) (4)**	2
	Lithium ion (Pouch)		1
	Lithium ion		4
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion		2, 4
	Lithium ion (Pouch)		4
	Lithium ion		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		4
	Lithium ion		1

(b) (4)	Lithium ion (pouch)	(b) (4)	1
	Lithium ion		2
	Lithium ion		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion		4
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (pouch)		1
	Lithium ion		2
	Lithium ion (pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1

(b) (4)	Lithium ion	(b) (4)	2, 4
	Lithium ion (Pouch)		1
	Lithium ion		4
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		2
	Lithium ion		4
	Lithium ion (pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion		2, 4
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2

[d] These cells and batteries are rechargeable. The circuitry containing these cells or batteries is to contain protective components intended to protect the cells or batteries from currents in excess of the maximum charging current and voltage indicated.

[e] The Max Charging Voltage noted in the column is the maximum voltage employed during the abnormal charging test of the secondary lithium ion cell. However, the maximum recommended charging voltage for lithium ion cells is 4.2 V, unless indicated otherwise.

[f] Test Compliance - The cells comply with the tests in UL 1642 as noted:

1 - Complies with all single-cell tests

2 - Complies with all single-cell tests except the impact test

3 - Complies with all single-cell tests except the projectile test

4 - Complies with all single-cell tests except the crush test

Marking: Company name or tradename (b) (4) Recognized Component Mark, (b) (4) on the cell or smallest shipping package containing the cell.

Last Updated on 2019-06-13

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UL Product iQ™

(b) (4) - LITHIUM BATTERIES - COMPONENT

Lithium Batteries - Component

See General Information for Lithium Batteries - Component

(b) (4)

(b) (4)

Model No.	Secondary Type[d]	Max Charging Current (Ic), mA	Max Charging Voltage, V dc[e]	Test Compliance [f]
"se".				
(b) (4)	Lithium ion (Cylindrical)	(b) (4)		1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			2
	Lithium ion			2
	Lithium ion			1
	Lithium ion			1
	Lithium ion			2
	Lithium ion (Pouch)			2
	Lithium ion (Pouch)			2
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1

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(b) (4)	Lithium ion	(b) (4)	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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	Lithium ion		1
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(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	(b) (4)	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	(b) (4)	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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	Lithium ion		1
(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	**(b) (4)**	1
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(b) (4)	Lithium ion	(b) (4)	1
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	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
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	Lithium ion		1
	Lithium ion		2
	Lithium ion		1
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	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1

	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		2, 3
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
(b) (4)	Lithium ion	**(b) (4)**	1
	Lithium ion		1
	Lithium ion (Cylindrical)		2, 3
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		2, 3
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		3
	Lithium ion (Cylindrical)		3
	Lithium ion		2
	Lithium ion		1
	Lithium ion		1

	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		3
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		2
	Lithium ion		2
	Lithium ion (Pouch)		2
(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		2
	Lithium ion		2
	Lithium ion		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		2
	Lithium ion		2
	Lithium ion		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion		1
	Lithium ion		1

	Lithium ion		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		2
	Lithium ion		2
	Lithium ion		2
	Lithium ion		2
	Lithium ion		2
	Lithium ion		2
	Lithium ion (Pouch)		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		2
(b) (4)	Lithium ion (Pouch)	(b) (4)	2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion		2
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		2

	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion		2
	Lithium ion		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion		1
(b) (4)	Lithium ion (Pouch)	**(b) (4)**	2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion		3
	Lithium ion		1
	Lithium ion		1

[d] These cells and batteries are rechargeable. The circuitry containing these cells or batteries is to contain protective components intended to protect the cells or batteries from currents in excess of the maximum charging current and voltage indicated.

[e] The Max Charging Voltage noted in the column is the maximum voltage employed during the abnormal charging test of the secondary lithium ion cell. However, the maximum recommended charging voltage for lithium ion cells is 4.2 V, unless indicated otherwise.

[f] Test Compliance - The cells comply with the tests in UL 1642 as noted:

1 - Complies with all single-cell tests

2 - Complies with all single-cell tests except the impact test

3 - Complies with all single-cell tests except the projectile test

4 - Complies with all single-cell tests except the crush test

++ - Above cell may have an optional single alphanumeric suffix.

@ - These cells can be designated as **(b) (4)**

Marking: Company name or tradename **(b) (4)**, Recognized Component Mark, **(b) (4)** on the cell or smallest shipping package containing the cell.

Last Updated on 2020-01-16

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(b) (4)

Lithium Batteries - Component

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Page Bottom

Lithium Batteries - Component

See General Information for Lithium Batteries - Component

(b) (4)

(b) (4)

Model No.	Secondary Type[d]	Max Charging Current (Ic), mA	Max Charging Voltage, V dc[e]	Test Compliance[f]
(b) (4)	Lithium ion (Prismatic)	(b) (4)		1
	Lithium ion (Prismatic)			1
	Lithium ion (Prismatic)			1
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(b) (4)	Lithium ion (Prismatic)	(b) (4)	1
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	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Cylindrical)		1
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(b) (4)	Lithium ion (Prismatic)	(b) (4)	1
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	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	350M++(g)		
	Lithium ion (Prismatic)		1
	350M++(h)		
	Lithium ion (Prismatic)		1
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(b) (4)	Lithium ion (Prismatic)	(b) (4)	1
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	Lithium ion (Prismatic)		1

(b) (4)	Lithium ion (Prismatic)	(b) (4)	1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Pouch)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
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	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1

(b) (4)	Lithium ion (Prismatic)	(b) (4)	1
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	Lithium ion (Prismatic)		1
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	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1

(b) (4)	Lithium ion (Prismatic)	(b) (4)	1
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	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1

(b) (4)	Lithium ion (Cylindrical)	(b) (4)	1
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	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
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	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
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(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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	Lithium ion (Pouch)		2
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(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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	Lithium ion (Pouch)		1
(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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	Lithium ion (Pouch)		1

(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
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	Lithium ion (Pouch)		2
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	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
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	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		2
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	Lithium ion (Pouch)		2
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	Lithium ion (Pouch)		1

(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		2
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	Lithium ion (Pouch)		2
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	Lithium ion		1
	Lithium ion (Pouch)		2
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(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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	Lithium ion		1
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	Lithium ion (Pouch)		2
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	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1

(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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(b) (4)	Lithium ion (Pouch)	(b) (4)	1
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	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1

(b) (4)	Lithium ion (Pouch)	(b) (4)	1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1

(b) (4)	Lithium ion (Pouch)	(b) (4)	1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		2
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1

[d] These cells and batteries are rechargeable. The circuitry containing these cells or batteries is to contain protective components intended to protect the cells or batteries from currents in excess of the maximum charging current and voltage indicated.

[e] The Max Charging Voltage noted in the column is the maximum voltage employed during the abnormal charging test of the secondary lithium ion cell. However, the maximum recommended charging voltage for lithium ion cells is 4.2 V, unless indicated otherwise.

[f] Test Compliance - The cells comply with the tests in UL 1642 as noted:

1 - Complies with all single-cell tests

2 - Complies with all single-cell tests except the impact test

3 - Complies with all single-cell tests except the projectile test

4 - Complies with all single-cell tests except the crush test

- For positive active material, Lithium Nickel Cobalt Manganese Oxide + Lithium Nickel Cobalt Aluminium Oxide

$ - For positive active material, Lithium cobalt oxide + Lithium Nickel Cobalt Manganese Oxide (LiNiCoMnO2)

(g) - Max charging values with recognized PTC.

(h) - Max charging values without PTC.

(i) - Max charging values with recognized thermal link.

(j) - Max charging values with recognized regulating thermostat.

(^) - Positive active material, Lithium Nickel Cobalt Aluminium Oxide and Negative active material, Natural graphite carbon, Artificial graphite carbon and PVDF or SBR

* - For positive active material, Lithium Nickel Cobalt Aluminium Oxide

++ - May have an optional alphanumeric suffix.

@ - For positive active material, Lithium Nickel Cobalt Manganese Oxide (LiNiCoMnO2)

Marking: Company name or tradename (b) (4) Recognized Component Mark, (b) (4) on the cell or smallest shipping package containing the cell.

Last Updated on 2018-12-21

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(b) (4)

Lithium Batteries - Component

If you notice a change to your BBCV2 Listing Card, click here to learn more.

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Lithium Batteries - Component

See General Information for Lithium Batteries - Component

(b) (4)

(b) (4)

Model No.	Secondary Type[d]	Max Charging Current (Ic), mA	Max Charging Voltage, V dc[e]	Test Compliance[f]
(b) (4)	Lithium ion	(b) (4)		1
	Lithium ion (Prismatic)			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Pouch)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Cylindrical)			1
	Lithium ion (Prismatic)			1
	Lithium ion (Prismatic)			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			3
	Lithium ion (Prismatic)			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1
	Lithium ion			1

(b) (4)	Lithium ion	**(b) (4)**	1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Pouch)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
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	Lithium ion		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion		1
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	Lithium ion		1
	Lithium ion		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
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	Lithium ion (Prismatic)		1
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	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
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	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion		1
	Lithium ion (Prismatic)		1
	Lithium ion (Prismatic)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		3
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		3
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
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	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1

(b) (4)	Lithium ion	(b) (4)	1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		3
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
	Lithium ion (Pouch)		1
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	Lithium ion (Pouch)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1

(b) (4)	Lithium ion (Cylindrical)	(b) (4)	1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
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	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion		1
	Lithium ion		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1
	Lithium ion (Cylindrical)		1

[d] These cells and batteries are rechargeable. The circuitry containing these cells or batteries is to contain protective components intended to protect the cells or batteries from currents in excess of the maximum charging current and voltage indicated.

(b) (4)

[f] Test Compliance - The cells comply with the tests in UL 1642 as noted:

1 - Complies with all single-cell tests

2 - Complies with all single-cell tests except the impact test

3 - Complies with all single-cell tests except the projectile test

4 - Complies with all single-cell tests except the crush test

(e) - (e) - These cells may have an optional single or double alphanumeric suffix (for internal use only).

(h) - Can be used in Series with a maximum of four cells of the same model number or in parallel with a maximum of six cells of the same model number.

(i) - Cells can be used in Series with a maximum of four cells of same model number or in parallel with a maximum of four cells of the same model number.

(j) - These cells can be used in parallel with a maximum of two cells of same model number with one protection device in Series.

Note - All cells may have an optional single or double alphanumeric suffix. (for internal use only). Also, For battery packs manufactured (b) (4) the cells need not be individually marked if the proper documentation is available to show that the cells are Recognized.

Marking: Compa[illegible]r tradename (b) (4) Recognized Component Mark (b) (4) on the cell or smallest shipping package containing the cell.

Last Updated on 2019-01-08

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