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BBCV2.MH60981 Lithium Batteries - Component

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[Page Bottom](#)

Lithium Batteries - Component

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XINXIANG SUNSHINE BATTERY MANUFACTURING CO LTD

Dakuai Electronic Industrial Park Fengquan District
 Xinxiang, Henan 453000 CHINA

MH60981

Model No.	Secondary Type ^[d]	Max Charging Current (I _c), mA	Max Charging Voltage, V dc ^[e]	Test Compliance ^[f]
INR18350E 700mAh	Lithium ion (Cylindrical)	1400	4.25	3
INR18350E 800mAh	Lithium ion (Cylindrical)	800	4.2	1
INR18650E 1200mAh	Lithium ion (Cylindrical)	1200	4.2	1
INR18650E 1300mAh	Lithium ion (Cylindrical)	2600	4.25	3
INR18650E 1500mAh	Lithium ion (Cylindrical)	3000	4.25	1
INR18650E 1800mAh	Lithium ion (Cylindrical)	3600	4.25	1
INR18650E 2000mAh	Lithium ion (Cylindrical)	4000	4.25	1
INR18650E 2200mAh	Lithium ion (Cylindrical)	2200	4.2	1
INR18650E 2400mAh	Lithium ion (Cylindrical)	2400	4.2	1
INR18650E 2600mAh	Lithium ion (Cylindrical)	2600	4.2	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, Recognized Component Mark,  on the cell or smallest shipping package containing the cell.

[Last Updated](#) on 2017-10-26

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[Page Bottom](#)

[Batteries - Component] Lithium Batteries - Component

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The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UL.

USE

This category covers primary cells and batteries having metallic lithium anodes and secondary lithium ion cells and batteries. The electrochemistry of these devices may vary with different manufacturing processes. These devices have been investigated for potential fire and explosion hazards. Unless otherwise indicated in the individual Recognitions, these batteries are intended for use in devices serviced (including the replacement of the lithium cells or batteries) by personnel trained in the use of these batteries.

Primary cells and batteries are not rechargeable. Secondary cells and batteries are rechargeable. Primary cells and batteries are designated to be either technician replaceable or user replaceable. Secondary lithium ion cells are not intended to be user replaceable. The circuitry containing the primary cells and batteries should include two diodes (or equivalent) to prevent charging current. Alternatively, the circuitry containing primary cells and batteries should include one diode (or equivalent) and a current-limiting device, such as a resistor. Secondary cells and batteries should be provided with current-limiting and voltage-limiting protection, as noted in the individual Recognitions, to protect the cell and battery from charging currents and voltages in excess of the maximum charging current and maximum recommended charging voltage (typically 4.2 V), respectively.

CONDITIONS OF ACCEPTABILITY

Consideration is to be given to the Conditions of Acceptability specified in the individual Reports when these components are employed in the end-use equipment.


RELATED PRODUCTS

Secondary lithium cells for use in portable applications are also covered under Secondary Lithium Cells for Use in Portable Applications ([BBTM2](#)).

REQUIREMENTS

The basic standard used to investigate products in this category is [UL 1642](#), "Lithium Batteries."

UL MARKING

Components Recognized under UL's Component Recognition Program are identified by markings consisting of the Recognized company's identification and catalog, model or other product designation on the cell or on the smallest shipping package containing the cell. In addition, components produced under the UL Component Recognition Program will also bear the Recognized Component Mark .

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