

**BBCV2.GuideInfo**
Lithium Batteries - Component[View Listings](#)[Page Bottom](#)**[Batteries - Component] Lithium Batteries - Component**[See General Information for Batteries - Component](#)

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 

The Listing or Classification Mark of UL is not authorized for use on, or in connection with, Recognized Components. Only those components that actually bear the "Marking" should be considered as being covered under the Component Recognition Program.

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