



SANYO

LASER
Lithium

LITHIUM BATTERY
CR17335SE(3V)

Sanyo SEB-013SEB-013 Brochure & Specs

Sanyo lithium batteries

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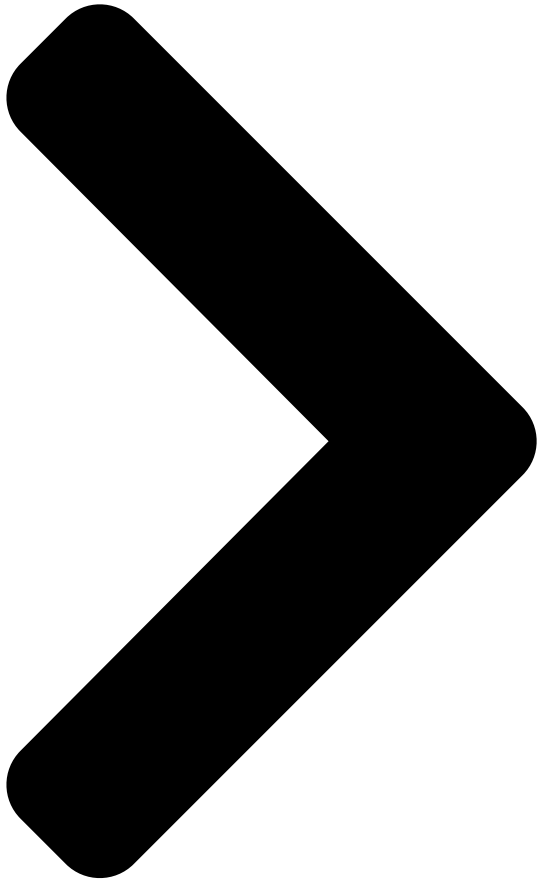


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URL <http://www.sanyo.co.jp/energy/>

SEB-013

SEB-013

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Lithium



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Summary of Contents for Sanyo SEB-013SEB-013

[Page 1](#) Sanyo Lithium Batteries URL <http://www.sanyo.co.jp/energy/> SEB-013 SEB-013...

[Page 2](#) □ Battery Handling Precautions for Your Own Safety □ Lithium batteries contain combustible materials such as lithium metal and organic solvent. Improper handling can lead to heat generation, bursting or fire. To prevent accidents, follow these precautions and refer to them when precautions regarding lithium battery usage are described in instruction manuals for equipment you are using.

[Page 3](#) ●Cylindrical-type Primary Lithium Batteries "DO NOT CHARGE" WARNING! 1. Do not use batteries for unspecified purposes. Differences in voltage or terminal configuration may

cause an imperfect connection, fire, heat generation, leakage or bursting. 2. Do not charge. When this battery is charged, gas is generated inside and raises internal pressure, resulting in fire, heat generation, leakage or bursting.

[Page 4](#) Featuring compact dimensions, high energy capacity and long-term durability, lithium batteries successfully meet today's needs.

[Page 5](#) □ Sizes and Models of Lithium Batteries □ Sanyo lithium battery dimensions and models are as follows: ■ Coin Type Lithium Batteries diameter height ML414 ML414R NBL414 ML421 ■ Cylindrical Type Primary Lithium Batteries diameter 11.6 height 10.8 CR-1/3N 25.0 25.2...

[Page 6](#) □ Principles and Structure of Primary Lithium Batteries □ Applying an original manufacturing process, Sanyo uses a manganese dioxide compound as the active material for the positive electrode (cathode). Lithium is used for the negative electrode (anode) to produce a cell with high voltage and high energy density. In addition, an organic electrolyte is employed to which lithium salts are added.

[Page 7](#) Laser-sealing High-capacity cylindrical type primary battery: -40°C to 85°C Operational Temperature Range Sanyo lithium batteries have an organic electrolyte with a very low freezing point, which guarantees reliable operation even at extremely low temperatures. Additionally, rigorous selection of materials and superior sealing technology give these batteries excellent characteristics even at high temperatures.

[Page 8](#) ● Superior high-rate pulse discharge characteristics. ● Usable over a wide temperature range. Operational temperature range: -20°C to 70°C Consult Sanyo when using batteries at temperatures exceeding the -20°C to 60°C range. ● Superior leakage resistance. ● Extremely safe (UL recognized component; File No. MH12383).

[Page 9](#) ● Usable over a wide temperature range. Operational temperature range: Crimp-sealing type: -40°C to 60°C Laser-sealing type: -40°C to 85°C Consult Sanyo when using batteries at temperatures exceeding the -20°C to 60°C range. ● Stable discharge characteristics. ● Superior leakage resistance.

[Page 10](#) (uniform discharge voltage). ● Usable over a wide temperature range. Operational temperature range: -40°C to 85°C Consult Sanyo when using batteries at temperatures exceeding the -20°C to 60°C range. ● Superior leakage resistance. ● Extremely safe (UL recognized component: File No. MH12383).

[Page 11](#) CR2430 CR2450 Operational temperature range: -20°C to 70°C Consult Sanyo when using batteries at temperatures exceeding the -20°C to 60°C range. ■ High-power Cylindrical Type Primary Lithium Batteries (spiral structure, crimp-sealing) Standard discharge Max. discharge current (mA) Max. dimensions (mm)

[Page 12](#) □ Principles and Structure of Coin Type Manganese Dioxide Rechargeable Lithium Batteries □ Manganese dioxide, with proven performance, is used as the active material for the positive electrode through Sanyo's developed treatment. The active material in the negative electrode, lithium aluminum alloy, offers stable cyclic performance with a high discharge voltage.

[Page 13](#) ※3 Current value for obtaining 2.0V cell voltage when 15sec. pulse applied at 50% discharge depth at 23°C . ※4 ML414R is able to use the reflow soldering process. Consult Sanyo for details of items not described in this catalog. ●...

[Page 14](#) □ Principles and Structure of Coin Type Niobium Rechargeable Lithium Batteries □ These batteries use niobium pentoxide as the active material for the positive electrode by employing Sanyo's original treatment process. In turn, the active material for the negative electrode is made from lithium aluminum alloy. This allows stable cyclic performance to be maintained at a low discharge voltage. The electrolyte is made by dissolving lithium salts in a mixed organic solvent.

[Page 15](#) The judgement standard of dangerous goods corresponds to DGR of ICAO. When the batteries are not regarded as dangerous, any transportation method is acceptable if they are transported in rigid packaging with short circuit protection. The following Sanyo lithium batteries contain less than 1.0g of lithium or lithium alloy (under 2.0g for assembled batteries)

per single ●...

[Page 16](#) Sanyo lithium batteries supply power for a wide spectrum of applications. □
Categories and Applications of Lithium Batteries □ high-power cylindrical type Application
spiral structure, crimp-sealing main power souce radio ● TV/VCR camera ● camcorder ●
telephone cellular phone GPS/car stereo...

This manual is also suitable for:

[MI414MI614MI414rNbl414MI621MI421](#) ... [Show all](#)