Panasonic

New Product

Lithium Primary

1999

Matsushita Battery Industrial Co., Ltd.

Manganese Dioxide (CR Series) Lithium Batteries

CR-V3(3V...2 cells in parallel)
CR-V6(6V...2 cells in series)

The 3 V System's High Voltage and High Capacity Make it Perfect for Digital Cameras.

Overview

Panasonic's cylindrical lithium batteries provide high voltage, handle high-rate pulse discharge, and have superior low temperature characteristics, making them ideal as the main power supply for digital cameras, etc. Panasonic has developed two new types of battery packs that connect two high capacity "AA" size lithium batteries in series and in parallel. These new battery packs will be extremely helpful in reducing the size and thickness of digital cameras, portable data terminals and other equipment.

Characteristics

1. Superior low-temperature characteristics allow use over a wide temperature range (-40°C to +70°C)
2. Low self-discharge provides superior long-term storage characteristics (Self-deterioration rate of about 1% per year at room temperature)
3. Design compatibility with two "AA" size dry cell batteries (CR-V3)

Applications

- Digital Cameras
- PDAs
- Portable Data Terminals
- Strobe Lights, etc.

◆ Specifications

Model Number	Structure	Nominal Voltage	Nominal Capacity	Dimensions (mm)	Approx. Weight (g)
CR-V3	2 cells in parallel (with PTC)	3V	3,000mAh	29 x 14.5 x 52 (W) x (T) x (H)	39
CR-V6	2 cells in series (with PTC)	6V	1,500mAh		

Equipment Design Example
Digital Camera: CR-V series --vs-- AA Alkaline

Superior Low Temperature Characteristics!

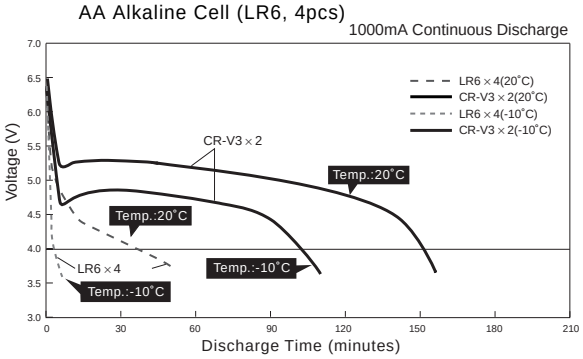
Vast increase in the number of pictures!

6V
Alkaline cell
AA x 4

Slimmer and lighter!

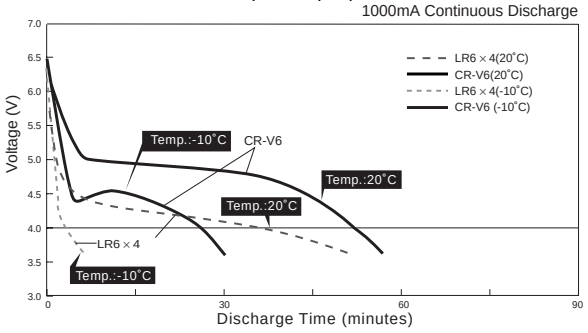
CR-V3 2 packs in series
(6V 3,000mAh)

Discharge Characteristics of CR-V3 (2pcs) and AA Alkaline Cell (LR6, 4pcs)



CR-V6 1 pc
(6V 1,500mAh)

Discharge Characteristics of CR-V6 (1pc) and AA Alkaline Cell (LR6, 4pcs)



◆ Safety Precautions

⚠ WARNING

- Charging
  - Absolutely do not charge the batteries. Also, do not design circuits so that current flows from another power source to the batteries.
- Heating
  - Do not heat the batteries at high temperature or directly expose batteries to fire.
  - Do not directly apply solder to the batteries.
- Disassembly
  - Do not disassemble or modify the batteries.
- Short Circuit
  - Do not connect the anode (+) and cathode (-) of a battery with metal such as wire. Also, do not carry or store batteries together with necklaces, hair pins, or other metallic objects.
  - Do not store multiple batteries in an unorganized manner or mix together with other metal objects, as this may cause a short circuit.
- Reverse Connection
  - Do not insert batteries with the anode (+) and cathode (-) ends reversed.
- Mixing Batteries
  - Do not mix new batteries with partially or completely used batteries.
  - Do not mix different types of batteries.
- Other
  - Do not use the batteries for other than the specified applications.
  - Keep the batteries out of reach of small children and infants.

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Panasonic Batteries
Panasonic Industrial Company
A Division of Matsushita Electric Corporation of America

Toll Free: 877-726-2228
E-mail: oembatteries@panasonic.com
Web: www.panasonic.com/batteries