BATTERIES FOR METERING APPLICATIONS

Applications: heat cost allocators, electricity, gas and water meters

To ensure trouble-free data security, utility meters need a reliable power source. The battery must function reliably even under widely fluctuating ambient temperatures and must also be designed for a long service life to reduce maintenance costs. In the case of automated meter reading, the battery must also be able to deliver high pulse currents even after long periods.

KEY BENEFITS:
° NO PASSIVATION
° STABLE INTERNAL RESISTANCE
° NO CAPACITOR REQUIRED
° LOW SELF-DISCHARGE
° LARGE TEMPERATURE RANGE

Panasonic is the battery manufacturer with the most diverse product spectrum worldwide and more than 85 years of experience in the production of high-quality industrial batteries.

Our Lithium batteries are ideal for long-term use in applications with different temperature requirements. Due to our time-proven CR technology, which is not affected by passivation, the battery voltage is retained over a period of many years. With a life of more than 10 years, our batteries therefore always deliver reliable power even after long storage.
**LITHIUM COIN TYPE BATTERIES**
**BR-A SERIES**

**Specifications**
- **BR-2477A**
  - Diameter (mm): 24.5
  - Height (mm): 7.7
  - Approximate weight (g): 8.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,000
  - Ambient temperature: -40 to 125°C
- **CR-Z**
  - Diameter (mm): 15.6
  - Height (mm): 27.0
  - Approximate weight (g): 11.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,000
  - Ambient temperature: -40 to 75°C
- **CR-2/3AZ**
  - Diameter (mm): 17.0
  - Height (mm): 33.5
  - Approximate weight (g): 17.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,600
  - Ambient temperature: -40 to 70°C
- **CR-AG**
  - Diameter (mm): 17.0
  - Height (mm): 45.5
  - Approximate weight (g): 24.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 2,400
  - Ambient temperature: -40 to 70°C
- **CR-CZ**
  - Diameter (mm): 26.0
  - Height (mm): 50.5
  - Approximate weight (g): 60.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 6,500
  - Ambient temperature: -40 to 70°C
- **CR-AAU**
  - Diameter (mm): 14.5
  - Height (mm): 50.5
  - Approximate weight (g): 18.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,800
  - Ambient temperature: -40 to 85°C

**Applications**
- Electricity meter
- Gas meter
- Water meter
- Heat cost allocator

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**LITHIUM CYLINDRICAL TYPE BATTERIES**
**CR SERIES**

**Specifications**
- **CR-AG**
  - Diameter (mm): 24.5
  - Height (mm): 7.7
  - Approximate weight (g): 8.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,000
  - Ambient temperature: -40 to 125°C
  - Applications: Electricity meter

**Panasonic CR SERIES**
- Stable internal resistance
- Excellent pulse discharging characteristics
- Wide temperature range (-40 to 70°C)
- Low self-discharge (<1% per year at 20°C)

**SUmbale BATTERIES**

- **BR-2477A**
  - Diameter (mm): 24.5
  - Height (mm): 7.7
  - Approximate weight (g): 8.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,000
  - Ambient temperature: -40 to 125°C
  - Applications: Electricity meter

- **CR-Z**
  - Diameter (mm): 15.6
  - Height (mm): 27.0
  - Approximate weight (g): 11.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,000
  - Ambient temperature: -40 to 75°C

- **CR-2/3AZ**
  - Diameter (mm): 17.0
  - Height (mm): 33.5
  - Approximate weight (g): 17.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,600
  - Ambient temperature: -40 to 70°C

- **CR-AG**
  - Diameter (mm): 17.0
  - Height (mm): 45.5
  - Approximate weight (g): 24.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 2,400
  - Ambient temperature: -40 to 70°C

- **CR-CZ**
  - Diameter (mm): 26.0
  - Height (mm): 50.5
  - Approximate weight (g): 60.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 6,500
  - Ambient temperature: -40 to 70°C

- **CR-AAU**
  - Diameter (mm): 14.5
  - Height (mm): 50.5
  - Approximate weight (g): 18.0
  - Nominal voltage (V): 3.0
  - Nominal capacity (mAh): 1,800
  - Ambient temperature: -40 to 85°C

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For more technical information, please use this email: battery-solutions@eu.panasonic.com

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