

ER9V

9.0V 1200mAh

Primary lithium batteries

9.0V Primary lithium-thionyl chloride
(Li-SOCl₂) Energy type

Cell size references

Electrical characteristics

(typical values relative to cells stored for one year or less at +30°C max.)

Nominal capacity **1.2Ah**

(at 1.0 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).

Open circuit voltage (at +20°C) **10.8V**

Nominal voltage (at 0.5mA+20°C) **9.0V**

Max.Continuous current **50mA**

Max.Pulse current **100mA**

Pulse capability: Typically up to 100 mA (100 mA/0.1 second pulses, drained every 2 mn at +20°C from undischarged cells with 10 μA base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell' s previous history. Fitting the cell with a capacitor may be recommended in severe conditions.

Storage (recommended) **+30°C (+86° F) max**
(for more severe conditions)

Operating temperature range **-55°C/+85°C**

(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses) **(-76° F/+185° F)**

Physical characteristics

Typical weight **40.0g**

Available termination suffix radial tabs, radial pins, axial leads, flying leads
(T/AX/P/PT)

Key Features

- Stainless steel container
- High and stable operating voltage
- Superior discharge rate
(less than 1% after 1 year of storage at +20°C)
- Hermetic glass-to-metal sealing
- Compliant with IEC 86-4 safety standard

Main applications

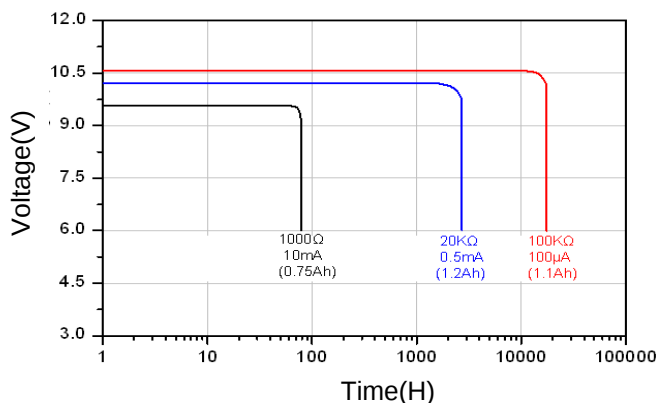
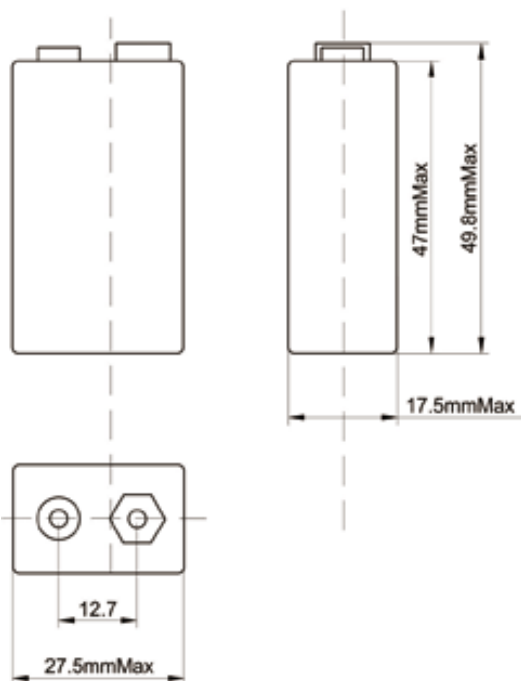
- AMR utility meters
- Memory back-up
- Automotive devices
- Deep hole drilling
- RFID devices
- Electronic toll tags
- GPS emergency locators
- Animal tracking
- Asset/container tracking
- Vehicle tracking
- House arrest systems
- Medical devices
- Wireless security(PIR)
- Oceanographic buoys
- Military electronics
- Industrial instruments

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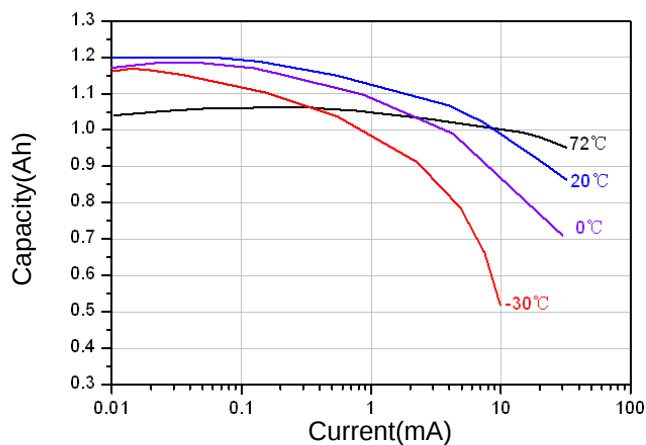
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■ Discharge characteristics at 23±2

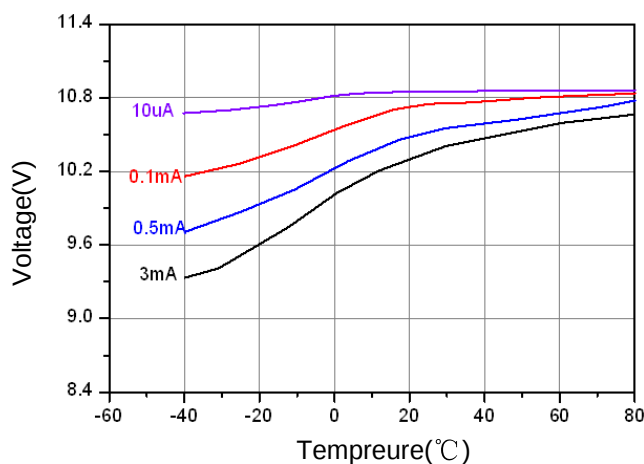
Unit:mm



Capacity VS. Current



Voltage VS. Temperature



Storage

The storage are a should be clean,
Cool (not exceeding +30°C),dry
And ventilated.

Warning

- Do not use if the battery casing was mangled.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate or expose contents or water.
- Do not solder directly to the cell (use tabbed cell versions instead)