

# Primary Lithium Battery

## CR14250SE

3.0V [Li-MnO<sub>2</sub>]

1/2AA-size bobbin cell



### BENEFITS

- High and Stable Operating Voltage
- Energy Density up to 830Wh/L
- Wide Operating Temperature Range (-40°C ~ +85°C)
- Low Self-discharge Rate (less than 1% per year after 1 year of storage at +25°C)

### KEY FEATURES

- Optimized Battery Structure, Full Discharge Capacity
- Long Endurance
- No Passivation
- GB 8897.4-2008, IEC 60086.4:2014 and RoHS

### MAIN APPLICATIONS

- Security System
- Smart Metering
- RFID and Tracking System
- Wireless Transmitting
- Smart Home Devices
- Military Devices

### References Data

#### Electrical characteristics

Open circuit voltage (at 25°C)	3.10V
Nominal capacity	900mAh
(At +25°C, battery discharged at continuous current 0.5mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)	
Maximum continuous current	7mA
(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity.)	
Maximum pulse discharge current	70mA
(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity with max pulse for 3 seconds after 27 seconds break. The discharged capacity 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, consult HCB.)	
Storage (recommended)	+30°C
(For more severe conditions, consult HCB)	
	75%RH
Operating temperature range	-40°C~+85°C
(Operation above ambient temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses, consult HCB.)	

# Primary Lithium Battery CR14250SE

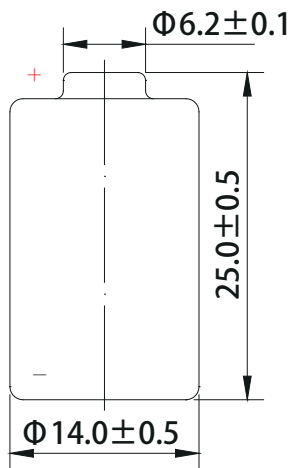
3.0V [Li-MnO<sub>2</sub>]  
1/2AA-size bobbin cell



## Physical characteristics

Diameter	14.0±0.5mm
Height	25.0±0.5mm
Typical weight	11.0g
Li metal content	0.32g

MSDS as per request  
Diode (1N4007, 1N5819)  
PTC (SRS175...)  
Tag, wire, connector, etc. available



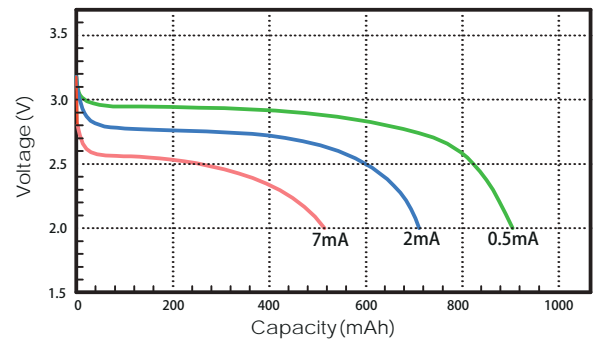
Dimensions in mm (GB1804-m)

## WARNING:

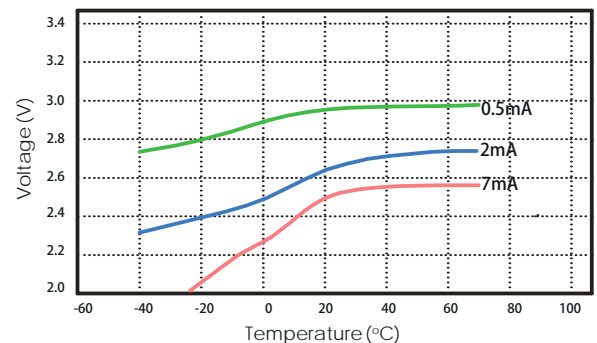
- Do Not Short Circuit
- Do Not Recharge
- Do Not Puncture
- Do Not Crush
- Do Not Dismantle
- Do Not Incinerate
- Do Not Mix New and Used Batteries
- Do Not Heat Above 100°C

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact HCB for the latest information

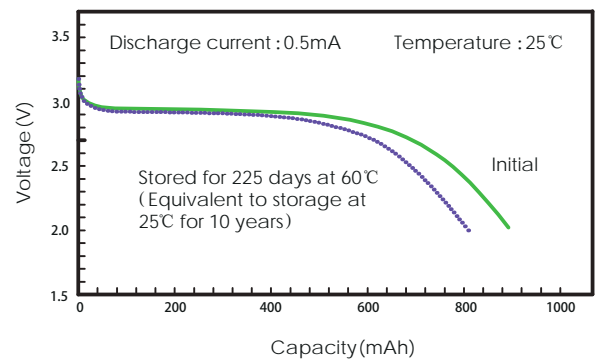
1. Typical discharge profiles at 25°C  
(at mid-discharge)



2. Voltage plateau versus Current and Temperature  
(at discharge stable phase)



3. Storage characteristics



## HCB BATTERY CO., LTD

Add: 37 Tianyuan Street, Dongxihu District, Wuhan, Hubei, China

P.O.: 430040  
Tel: +86(0)27 83248452  
Fax: +86(0)27 83248455

Email: haocheng@cnhcb.com  
Web: www.cnhcb.com  
No.: HCB-MKT.PM-S[V2.0 2023 05]