

# Primary Lithium Battery

## CR123ASC

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

2/3A-size bobbin cell



### BENEFITS

- High Voltage Response, Stable During Most of the Lifetime of the Application
- 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

### Reference Data

#### Electrical characteristics

**Open circuit voltage (at 25°C)** **≥3.10V**

**Nominal capacity** **2100mAh**

(At +25°C, battery discharged at continuous current 1mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

**Maximum continuous current** **20mA**

(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity.)

**Pulse discharge current** **100mA**

(Maximum pulse discharge current is 100mA. Discharge capacity of the battery will change with the pulse characteristics and ambient temperature as well as storage situation. For more detail, please inquiry HCB.)

**Storage (recommended)** **≤+30°C**

(For more severe conditions, consult HCB) **≤75%RH**

**Operating temperature range** **-40°C~+85°C**

(Consult HCB when using batteries at temperature exceeding -20°C~+60°C.)

\* The data in this document are for descriptive purposes only and are not intended to imply any guarantee or warranty.

### HCB BATTERY CO., LTD

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No.: HCB-MKT.PM-S[V2.0 2018 02]

# Primary Lithium Battery CR123ASC



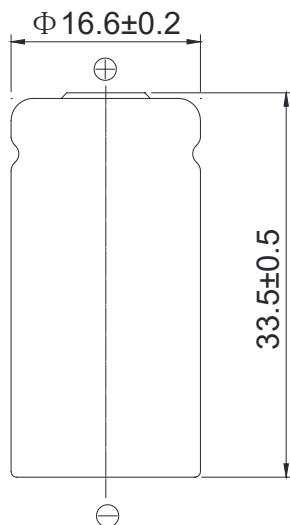
3.0V [Li-MnO<sub>2</sub>]

2/3A-size bobbin cell

## Physical characteristics

<b>Diameter</b>	<b>16.6±0.2mm</b>
<b>Height</b>	<b>33.5±0.5mm</b>
<b>Typical weight</b>	<b>20.0g</b>
<b>Li metal content</b>	<b>0.60g</b>

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

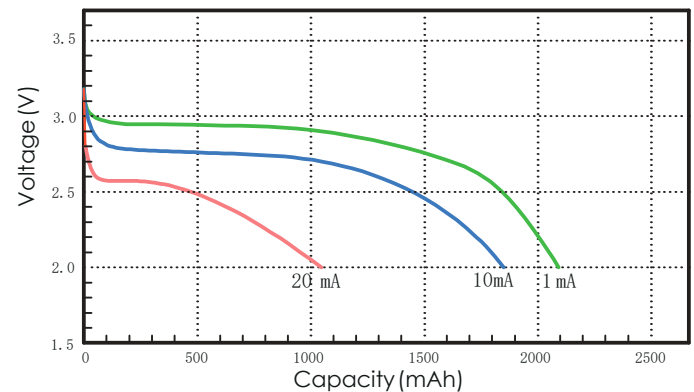


Dimensions in mm (GB1804-m)

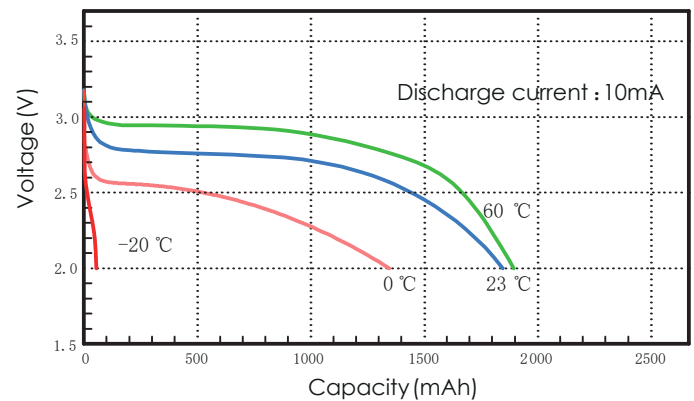
## WARNING:

- 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

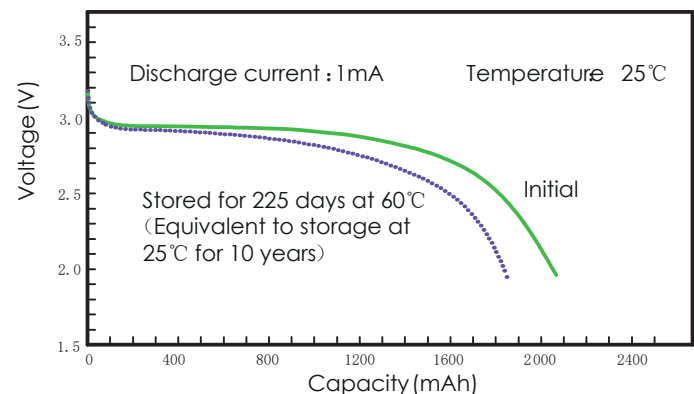
1. Typical discharge profiles at 25°C  
(at mid-discharge)



2. Typical discharge profiles with different temperature  
(at discharge stable phase)



3. Storage characteristics



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