



3.6V Li/SOCl₂ Battery
Middle C-Rate Type
hi-temperature ER battery



ER20100S-150

SPECIFICATIONS

(Typical data from the batteries stored at 25+5°C for 12 months)

Nominal Capacity: **9.0Ah**

(Capacity measured at 100mA, +25°C/135°C cut-off voltage 2.0V.)

Open Voltage (at +25°C) : **3.67V**

Nominal Voltage (at +25°C, 0.6mA) : **3.60V**

Max. Continuous Discharge Current: **200mA**

(Current at 50% of nominal capacity is obtained with a cut-off voltage of 2.0V over the range of +25°C to 135°C. For higher currents, consult POWERSTABILITY.)

Pulse Current: **400mA**

(At +25°C/135°C, an uncharged battery is discharged with a base current of 50μA, and a pulse of 800mA/0.1 second is discharged every 2 minutes during the discharge process, at which time the voltage reading is still above 2.8V. Battery voltage readings will vary depending on pulse characteristics, temperature, and storage conditions. For more severe conditions, please consult POWERSTABILITY for details. Please consult POWERSTABILITY for details)

Storage (suggest) : **+30°C**

(Please consult POWERSTABILITY for more demanding or stringent conditions)

Working Temperate Range: **-55°C - +150°C**

(Outside the operating temperature range can result in reduced capacity, low voltage readings and low voltage readings at the beginning of the pulse)

PHYICAL PROPERTIES

Diameter (max.): **20.7mm**

Height (Max.): **101.6mm**

Typical Weight: **70g**

Lithium Metal Content: **(About)2.7g**

ADVANTAGES

Stable high operating voltage and high capacitance

High energy density, high stable current

Wide operating temperature rages (-55°C ~ +150°C)

Low self-discharge rate (annual self-discharge rate is less than 3% at +25°C)

Excellent environmental application characteristics

Stainless steel case (low magnetic resistance to environmental erosion)

FEATURES

A positive structure with proprietary technology

Stainless steel - glass airtight package

Non-combustible electrolyte

High short circuit safety

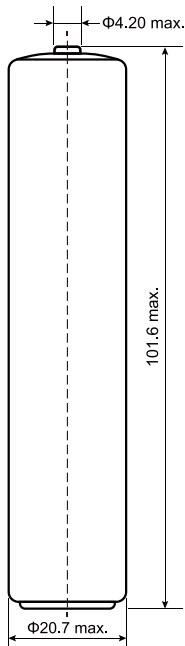
Comply with GB 8897.4-2008 technical requirements

Meet technical requirements of IEC60086.4:2014

Warning: Do not charge, short circuit, heat more than 150°C, decompose, put into water, directly in the battery shell surface welding, otherwise may cause explosion, combustion and internal acid leakage of the battery.

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Size unit : mm

(GB1804-m if tolerance is not specified)
For special connection requests, please consult POWERSTABILITY

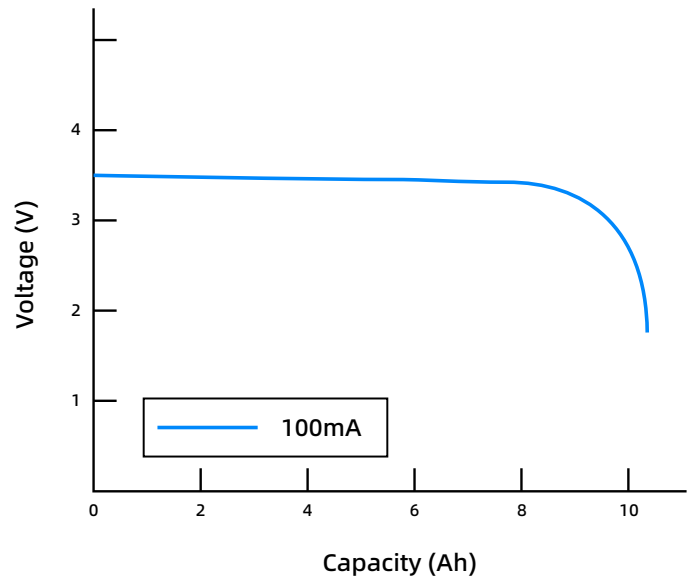
WARNING

- Do not short out the battery
- Do not charge the battery
- Don't pin the batter
- Do not squeeze the battery
- Pay attention to the battery anode and cathode
- Electrical equipment connection is correct
- Do not disassemble the battery
- Do not burn batteries
- Do not mix old and new batteries
- Do not heat the battery to more than 150°C
- Do not directly weld the battery
- Please use a battery with pre-welded pins or wires.

Notice:

POWERSTABILITY reserves the right to change the information contained in this data sheet without prior notice. Any performance parameters mentioned in this file are for reference only, and the contents of this document can be used as valid contract data only after written confirmation by both parties.

1. Typical discharge curve at +135°C (median)



2. Voltage graphs at different discharge currents and temperatures (during the stabilisation phase of the discharge)

