

Sunmoon Battery

ER18505

Lithium Thionyl Chloride Battery [Bobbin Type]
Li/SOCI2 3.6V



• Electrical Specification

Nominal Capacity[2mA~2V] **4.1Ah**

The discharge capacity of battery depends on the environment temperature and the terminated voltage of the battery.

Nominal Voltage **3.6V**

Maximum Continuous Current **80mA**

Maximum Pulse Current **150mA**

Under temperature of $23\pm 2^{\circ}\text{C}$, the battery starts to discharge with $10\mu\text{A}$ base current. The battery releases one pulse $150\text{mA}/0.1\text{secs}$ every 2 minutes during its discharging and the battery voltage shall not be less than 2.7V. The voltage value depends on pulse characteristics, temperature and the usage of the batteries.

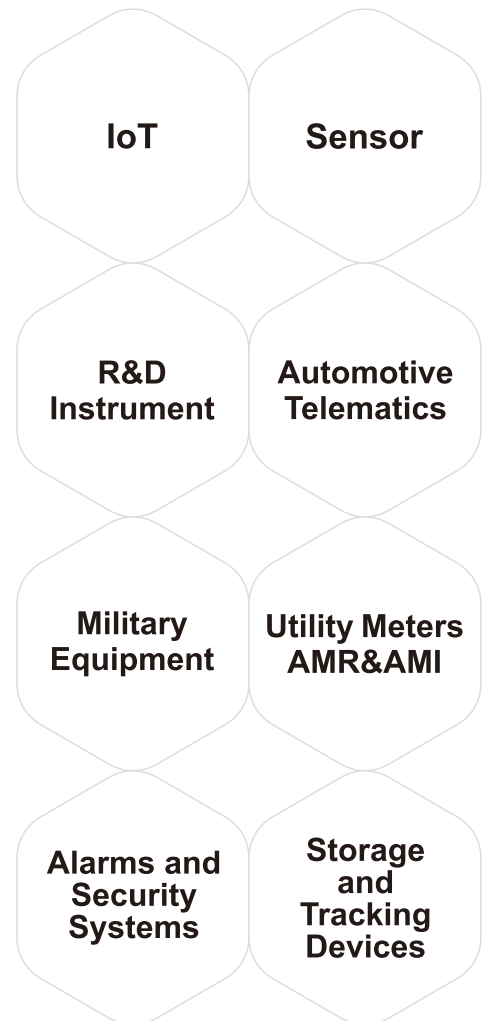
Weight **29g**

Operating Temperature **$-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$**

• Advantages

- High energy density over 620wh/kg [highest among all the chemical batteries]
- Open circuit voltage $\geq 3.65\text{V}$, and operating voltage ranging from 3.3~3.6V
- Wide operating temperature range: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Long storage life over 10 years [under normal room temperature]
- Suitable to operate under long-term tiny current with stable voltage

• Main Applications



**Customer Satisfaction is the Purpose We Always Adhere to,
Continuous Improvement is the Direction We Always Pursue!**

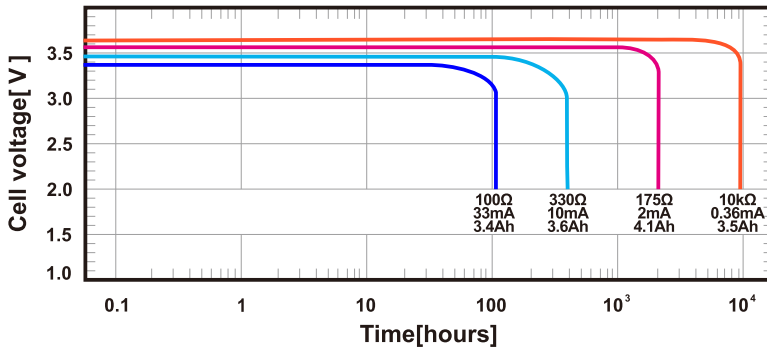
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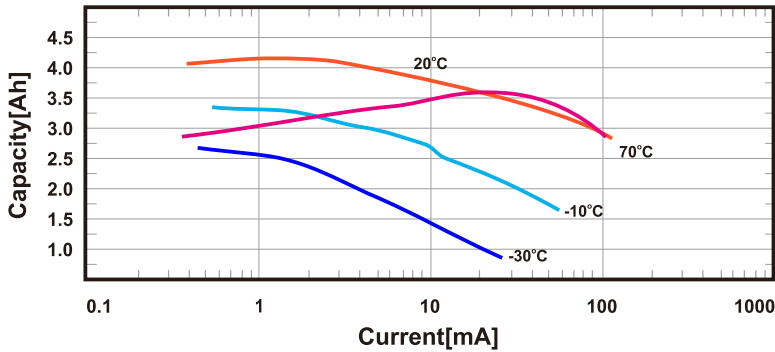
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Li/SOCI₂ 3.6V



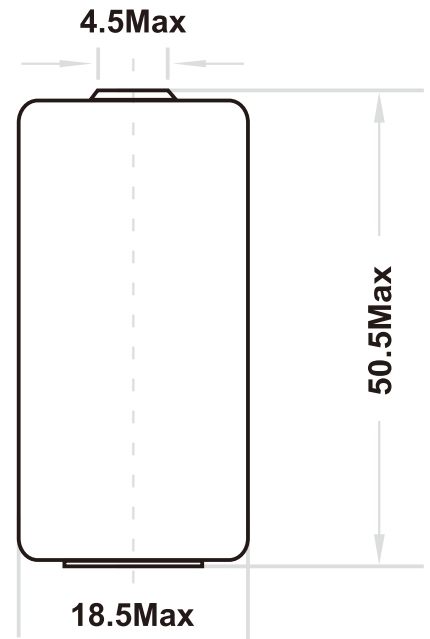
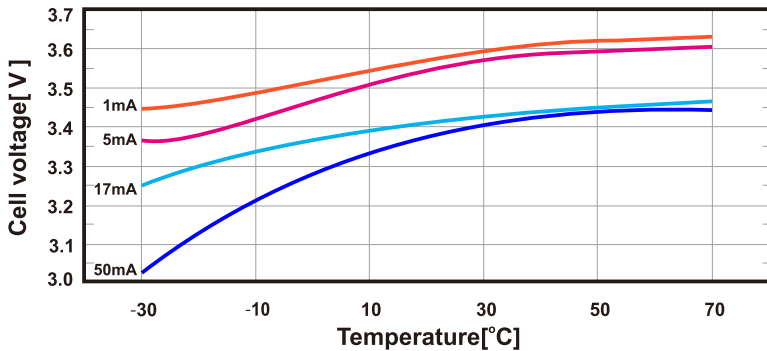
Typical Discharge Profiles at +23±2°C



Restored Capacity Versus Current and Temperature [2.0V cut-off]



Voltage Plateau Versus Current and Temperature



• Available Terminations

- S: Standard Termination
- T: Solder Tabs
- P: Axial Pins
- Customized terminations are available

• Warning

- Do not expose the battery to open flame, inflammable and explosive articles.
- Do not recharge, short-circuit, disassemble, incinerate the battery or heat the battery to more than 100°C.
- Do not use the battery beyond the permitted temperature range.

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