

# Sunmoon Battery

## ER18505M

Lithium Thionyl Chloride Battery [Spiral Type]  
Li/SOCI<sub>2</sub> 3.6V



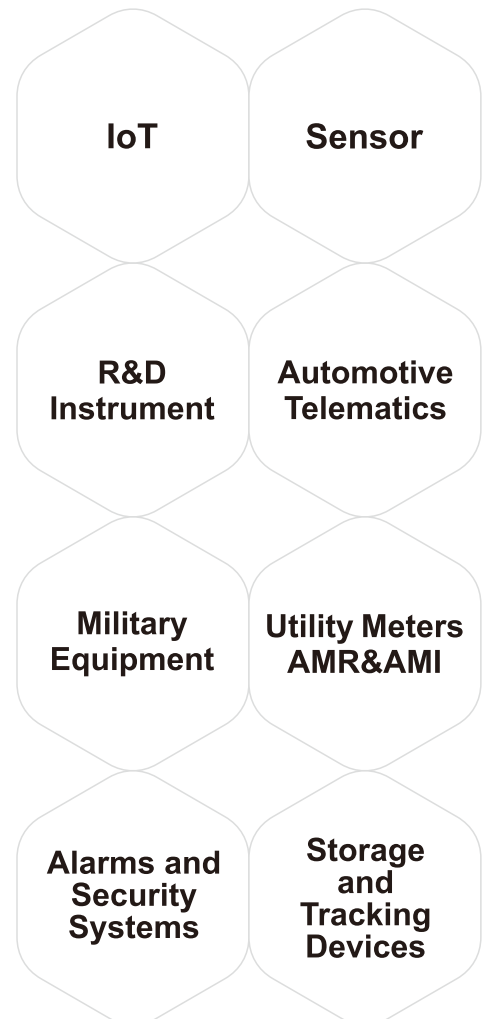
### • Electrical Specification

<b>Nominal Capacity[10mA~2V]</b>	<b>3.2Ah</b>
<i>The discharge capacity of battery depends on the environment temperature and the terminated voltage of the battery.</i>	
<b>Nominal Voltage</b>	<b>3.6V</b>
<b>Maximum Continuous Current</b>	<b>500mA</b>
<b>Maximum Pulse Current</b>	<b>1500mA</b>
<i>Under temperature of 23±2°C, the battery starts to discharge with 20µA base current. The battery releases one pulse 1500mA/0.5 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.</i>	
<b>Weight</b>	<b>30g</b>
<b>Operating Temperature</b>	<b>-55°C ~ +85°C</b>

### • Advantages

- High energy density over 430wh/kg
- Open circuit voltage ≥ 3.65V, and operating voltage ranging from 3.3~3.6V
- Wide operating temperature range: -55°C ~ +85°C
- Long storage life reaching 10 years [under normal room temperature]
- This series batteries are suitable for high power continuous discharge and pulse discharge

### • Main Applications



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

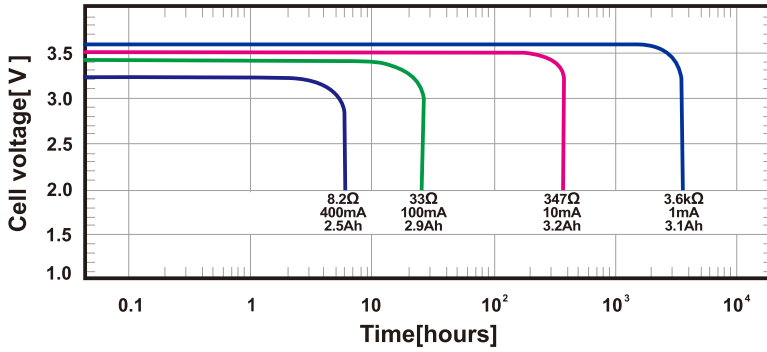
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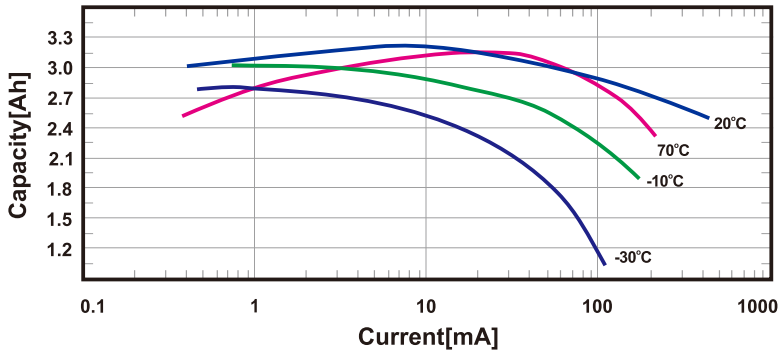
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Li/SOCI<sub>2</sub> 3.6V



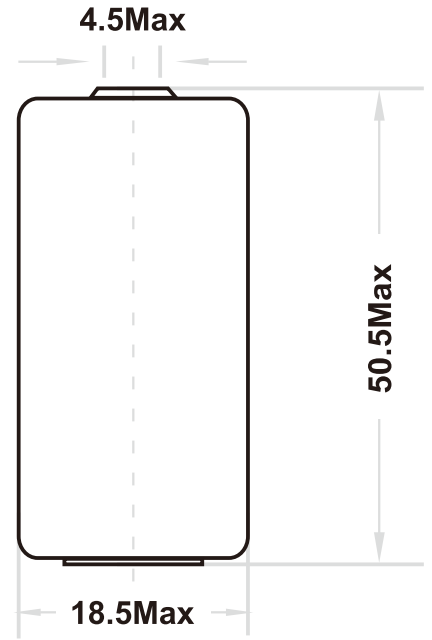
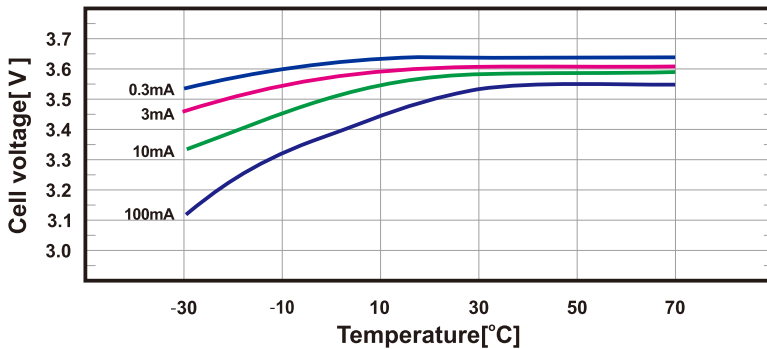
Typical Discharge Profiles at +23±2°C



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.

**Wuhan Sunmoon Battery Co., Ltd.**

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