



Rechargeable Battery

Lithium Thionyl Chloride Battery Datasheet

1. Model: SRB LI ER14505

2. Specification

- | | |
|------------------------------------|--|
| 1) Nominal voltage: | 3.6V |
| 2) Nominal capacity: : | 2400mAh(1.0mA / 2.0V) |
| 3) Discharge end-voltage: | 2.0V |
| 4) Operating voltage: | 3.4V(330 Ω , in 5s) |
| 5) Max constant discharge current: | 100mA |
| 6) Max. pulse current: | 200mA |
| 7) Ambient temperature range: | -55~ +85°C |
| 8) Storage life: | ≥ 10 year, Yearly self-discharge $\leq 1\%$ |

3. Appearance & Dimension/Weight

- | | |
|--------------------|--|
| 1) Appearance: | Cylinder |
| 2) Max dimension : | $\phi 14.5\text{mm} \times h50.5\text{mm}$ |
| 3) Max weight: | 19g |

4. Performance Testing

Unless other requests , all tests are carried out in ambient temperature $20 \pm 5^\circ\text{C}$.

Tests should be made within 45 days after receipt of the batteries.

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Rechargeable Battery

Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and clearly labeled
2.Dimensions	Measured by calipers with precision of 0.02mm	Max ϕ 14.5×50.5mm
3.Weight	Weighed by balance with precision of 0.1g	Max 19g
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	$\geq 3.65V$
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of 620 Ω in series, Reaching the target voltage in 5 seconds.	$\geq 3.45V$
6.Nominal discharge	620 Ω , $20 \pm 2^\circ C$, Constant discharge to 2.0V.	$\geq 1800mAh$
7.Rapid discharge	220 Ω , $20 \pm 2^\circ C$, Constant discharge to 2.0V..	$\geq 1650mAh$
8. Discharge at high temperature	Put battery in constant ambient temperature of $55 \pm 2^\circ C$ for 16 hours, discharge at 620 Ω to 2.0V/cell..	$\geq 1850mAh$
9.Discharge at low temperature	Put battery in constant ambient temperature of $-40 \pm 2^\circ C$ for 16 hours, discharge at 6.8K Ω to 2.0V/cell	$\geq 900mAh$
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of $20 \pm 5^\circ C$, Measure the nominal capacity yearly for 10 years.	$\leq 1\%$

Quality Data Inspection

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Rechargeable Battery

SPECIFICATION

Li-SOCl₂

Model : SRB LI ER 14505

AA

Thionyl Chloride Lithium Battery

● Characteristics:

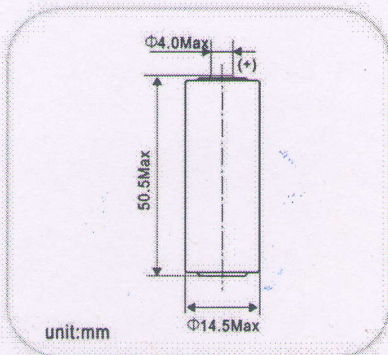
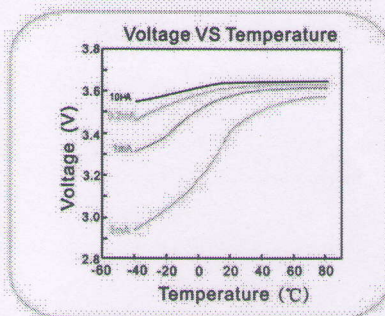
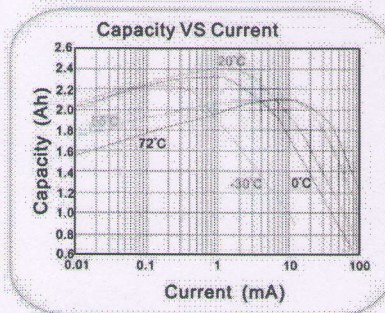
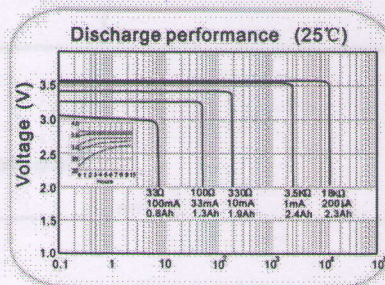
- ▲ Nominal capacity (1mA to 2.0V) 2.4Ah
- ▲ Nominal voltage 3.6V
- ▲ Max. Continuous Current 100mA
- ▲ Max. Pulse current 200mA
- ▲ Weight 19g
- ▲ Dimension ϕ 14.5×50.5mm
- ▲ Operating temperature range -55°C~+85°C

● Terminals available:

- AX axial leads
- T welding pins
- P plastic plug

- Special design is acceptable
- Data above is for reference
- Additional COST for the latest technology Able to avoid passivation is welcome.

● Characteristic curves



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DRAWING:

