

Lithium Thionyl Chloride Battery Datasheet

1a. GS YUASA Part No:1AA3-6LI

1b. Model: ER14505

2. Specification

- | | |
|------------------------------------|--------------------------------------|
| 1) Nominal voltage: | 3.6V |
| 2) Nominal capacity: : | 2400mAh(1.0mA / 2.0V) |
| 3) Discharge end-voltage: | 2.0V |
| 4) Max constant discharge current: | 100mA |
| 5) Max. pulse current: | 200mA |
| 6) Ambient temperature range: | -55~ +85℃ |
| 7) Storage life: | ≥10 year, Yearly self-discharge ≤ 1% |

3. Appearance & Dimension/Weight

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|--------------------|------------------|
| 1) Appearance: | Cylinder |
| 2) Max dimension : | φ 14.5mm×h50.5mm |
| 3) Max weight: | 19g |

4. Performance Testing

Unless other requests , all tests are carried out in ambient temperature 20±5℃.

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

Quality Data Inspection

Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and clearly labeled
2.Dimensions	Measured by calipers with precision of 0.02mm	Max $\phi 14.5 \times 50.5\text{mm}$
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	$\geq 3.65\text{V}$
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of $620\ \Omega$ in series, Reaching the target voltage in 5 seconds.	$\geq 3.40\text{V}$
6.Nominal discharge	$620\ \Omega$, $20 \pm 2\ ^\circ\text{C}$, Constant discharge to 2.0V.	$\geq 1800\text{mAh}$
7.Rapid discharge	$220\ \Omega$, $20 \pm 2\ ^\circ\text{C}$, Constant discharge to 2.0V..	$\geq 1650\text{mAh}$
8. Discharge at high temperature	Put battery in constant ambient temperature of $55 \pm 2\ ^\circ\text{C}$ for 16 hours, discharge at $620\ \Omega$ to 2.0V/cell..	$\geq 1850\text{mAh}$
9.Discharge at low temperature	Put battery in constant ambient temperature of $-40 \pm 2\ ^\circ\text{C}$ for 16 hours, discharge at $6.8\text{K}\ \Omega$ to 2.0V/cell	$\geq 900\text{mAh}$
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of $20 \pm 5\ ^\circ\text{C}$, Measure the nominal capacity yearly for 10 years.	$\leq 1\%$

SPECIFICATION

Li-SOCl₂
AA

MODEL:ER14505

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 $\phi 14.5 \times 50.5$ mm
- ▲ Operating temperature range -55°C ~ +85°C

● **Terminals available:**

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

● **Characteristic curves**

