

Lithium Thionyl Chloride Battery Datasheet

1.Model: 9V Lithium battery

2.Specification

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|------------------------------------|--------------------------------------|
| 1) Nominal voltage: | 10.8V |
| 2) Nominal capacity: | 900mAh(1mA / 6.0V) |
| 3) Discharge end-voltage: | 6.0V |
| 4) Operating voltage: | 9.6V(1.1k , in 5s) |
| 5) Max constant discharge current: | 50mA |
| 6) Max. pulse current: | 100mA |
| 7) Ambient temperature range: | -20°C ~ +70°C |
| 8) Storage life: | >10 year, Yearly self-discharge < 1% |

3. Appearance & Dimension/Weight

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|-------------------|----------------------|
| 1) Appearance: | Cylinder Shape |
| 2) Max dimension: | 16.5 × 25.3 × 48.5mm |
| 3) Max weight: | 31g |

4. Performance Testing

Unless other requests , all tests are carried out in ambient temperature 25±2°C.

Tests should be made within 15 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:16.5*25.3*48.5mm
3.Weight	Weighed by balance with precision of 0.1g	31g (max)
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	$\geq 10.95V$
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of 1100 Ω in series, Reaching the target voltage in 5 seconds.	$\geq 9.60V$
6.Nominal discharge	3.3K Ω , 20 \pm 2 $^{\circ}C$, Constant discharge to 2.0V.	$\geq 900mAh$
7.Rapid discharge	1100 Ω , 20 \pm 2 $^{\circ}C$, Constant discharge to 2.0V..	$\geq 700mAh$
8. Discharge at high temperature	Put battery in constant ambient temperature of 55 \pm 2 $^{\circ}C$ for 16 hours, discharge at 3.3K Ω to 6.0V/cell..	$\geq 950mAh$
9.Discharge at low temperature	Put battery in constant ambient temperature of -40 \pm 2 $^{\circ}C$ for 16 hours, discharge at 3.3K Ω to 6.0V/cell	$\geq 450mAh$
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.	$\leq 1\%$

SPECIFICATION

Li-SOCl₂

Model:ER9V

9V

Thionyl Chloride Lithium Battery

● Characteristics:

- ▲ Nominal capacity (1mA to 6.0V)..... 1.2Ah
- ▲ Nominal voltage..... 9V
- ▲ Max. Continuous current..... 50mA
- ▲ Max. Pulse current..... 100mA
- ▲ Weight..... 31g

Dimension 25.3×16.5×48.5mm

- ▲ Operating temperature range -55°C ~+85°C

- Special design is acceptable
- ◆ Data above is for reference

● Characteristic curves

