

## Lithium Thionyl Chloride Battery Datasheet

### **1.Model: 9V Lithium battery**

#### **2.Specification**

- |                                    |                                      |
|------------------------------------|--------------------------------------|
| 1) Nominal voltage:                | 10.8V                                |
| 2) Nominal capacity:               | 1200mAh(0.5mA / 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:      | -55°C~ +85°C                         |
| 8) Storage life:                   | >10 year, Yearly self-discharge < 1% |

#### **3. Appearance & Dimension/Weight**

- |                   |                  |
|-------------------|------------------|
| 1) Appearance:    | Cylinder Shape   |
| 2) Max dimension: | 17.5×25.3×48.5mm |
| 3) Max weight:    | 45g              |

#### **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:17.5*25.3*48.5mm
3.Weight	Weighed by balance with precision of 0.1g	45g ( max)
4.Open-circuit voltage	Measure by volt-meter with precision of 0.01V	≥10.95V
5.Operating voltage	Measure by volt-meter with precision of 0.01V, connecting an impedance of 1100Ω in series, Reaching the target voltage in 5 seconds.	≥9.60V
6.Nominal discharge	3.3KΩ,20±2°C, Constant discharge to 2.0V.	≥900mAh
7.Rapid discharge	1100Ω,20±2°C, Constant discharge to 2.0V..	≥700mAh
8. Discharge at high temperature	Put battery in constant ambient temperature of 55±2°C for 16 hours, discharge at 3.3KΩ to 6.0V/cell..	≥950mAh
9.Discharge at low temperature	Put battery in constant ambient temperature of -40±2°C for 16 hours, discharge at 3.3KΩ to 6.0V/cell	≥450mAh
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of 20±5°C, Measure the nominal capacity yearly for 10 years.	≤1%

Notice: This information is subject to change without prior notice and for reference only. It should not be used as a basis for a product guarantee or warranty . For additional information, please consult your nearest Camelion Sales Office or Distributor

### SPECIFICATION

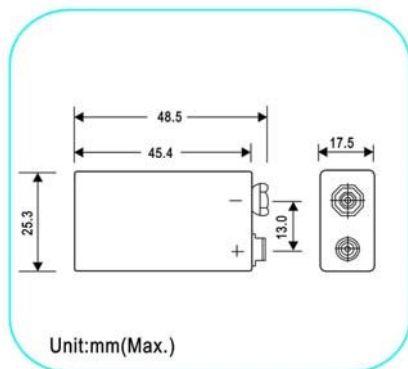
### Model:ER9V

Thionyl Chloride Lithium Battery

● Characteristics:

- ▲ Nominal capacity (0.5mA to 6.0V)..... 1.2Ah
- ▲ Nominal voltage..... 10.8 V
- ▲ Max. Continuous current..... 50mA
- ▲ Max. Pulse current..... 100mA
- ▲ Weight..... 45g
- Dimension ..... 25.3×17.5×48.5mm
- ▲ Operating temperature range ..... -55℃ ~+85℃

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



### Li-SOCl<sub>2</sub>

### 1/2AA

● Characteristic curves

