### **Lithium Thionyl Chloride Battery Datasheet**

### 1.Model: 9V Lithium battery

### 2. Specification

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:  $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$ 

8) Storage life: >10 year, Yearly self-discharge < 1%

### 3. Appearance & Dimension/Weight

1) Appearance: Cylinder Shape

2) Max dimension:  $16.5 \times 25.3 \times 48.5$ mm

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**

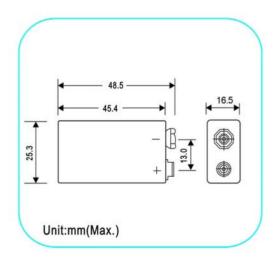
Item	Measuring Procedure	Standard
1.Appearance	Visual check	Clean, unscratched and
		clearly labeled
2.Dimenaions	Measured by calipers with precision of	Max:16.5*25.3*48.5mm
	0.02mm	
3.Weight	Weighed by balance with precision of 0.1g	31g ( max)
4.Open-circuit	Measure by volt-meter with precision of	≥10.95V
voltage	0.01V	
5.Operating voltage	Measure by volt-meter with precision of	≥9.60V
	$0.01$ V, connecting an impedance of $1100\Omega$ in	
	series, Reaching the target voltage in 5	
	seconds.	
6.Nominal	$3.3$ K $\Omega$ , $20\pm2$ °C, Constant discharge to 2.0V.	≥900mAh
discharge		
7.Rapid discharge	1100 $\Omega$ ,20±2°C, Constant discharge to 2.0V.	≥700mAh
8. Discharge at high	Put battery in constant ambient temperature	≥950mAh
temperature	of 55±2°C for 16 hours, discharge at 3.3K $\Omega$ to	
	6.0V/cell	
9.Discharge at low	Put battery in constant ambient temperature	≥450mAh
temperature	of -40±2°C for 16 hours, discharge at 3.3KΩ	
	to 6.0V/cell	
10.Charge	Prohibited	Prohibited
11.Over-discharge	Prohibited	Prohibited
12.Self discharge	Store the batteries at constant temperature of	≤1%
	$20\pm5$ °C, Measure the nominal capacity yearly	
	for 10 years.	

## **SPECIFICATION**

## Model: ER9V

### Thionyl Chloride Lithium Battery

- Characteristics:
- Dimension  $\cdots 25.3 \times 16.5 \times 48.5$ mm
  - A Operating temperature range -55℃~+85℃
- Special design is acceptable
- Data above is for reference



# Li-SOCI,

### 9V

#### Characteristic curves

