Lithium Thionyl Chloride Battery Datasheet

1. Model: ER14250 Bobbin type

2. Specification
   1) Nominal voltage: 3.6V
   2) Nominal capacity: 1200mAh(0.5mA / 2.0V)
   3) Discharge end-voltage: 2.0V
   4) Operating voltage: 3.3V(330Ω, in 5s)
   5) Max constant discharge current: 50mA
   6) Max. pulse current: 100mA
   7) Ambient temperature range: -55℃~ +85℃
   8) Storage life: ≥10 year, Yearly self-discharge ≤ 1%

3. Appearance & Dimension/Weight
   1) Appearance: Cylinder Shape
   2) Max dimension: φ14.5×h25.0mm
   3) Max weight: 11g

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

<table>
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<tr>
<th>Item</th>
<th>Measuring Procedure</th>
<th>Standard</th>
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<tbody>
<tr>
<td>1.Appearance</td>
<td>Visual check</td>
<td>Clean, unscratched</td>
</tr>
<tr>
<td>2.Dimensions</td>
<td>Measured by calipers with precision of 0.02mm</td>
<td>Max. φ14.5×25.0mm</td>
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<tr>
<td>3.Weight</td>
<td>Weighed by balance with precision of 0.1g</td>
<td>Max. 11g</td>
</tr>
<tr>
<td>4.Open-circuit voltage</td>
<td>Measure by volt-meter with precision of 0.01V</td>
<td>≥3.65V</td>
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<tr>
<td>5.Operating voltage</td>
<td>Measure by volt-meter with precision of 0.01V, connecting an impedance of 1200Ω in series, Reaching the target voltage in 5 seconds.</td>
<td>≥3.30V</td>
</tr>
<tr>
<td>6.Nominal discharge</td>
<td>1.1KΩ, 20±2°C, Constant discharge to 2.0V.</td>
<td>≥900mAh</td>
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<tr>
<td>7.Rapid discharge</td>
<td>330Ω, 20±2°C, Constant discharge to 2.0V.</td>
<td>≥700mAh</td>
</tr>
<tr>
<td>8. Discharge at high temperature</td>
<td>Put battery in constant ambient temperature of 55±2°C for 16 hours, discharge at 1.1KΩ to 2.0V/cell.</td>
<td>≥950mAh</td>
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<tr>
<td>9. Discharge at low temperature</td>
<td>Put battery in constant ambient temperature of -40±2°C for 16 hours, discharge at 1.1KΩ to 2.0V/cell</td>
<td>≥450mAh</td>
</tr>
<tr>
<td>10.Charge</td>
<td>Prohibited</td>
<td>Prohibited</td>
</tr>
<tr>
<td>11.Over-discharge</td>
<td>Prohibited</td>
<td>Prohibited</td>
</tr>
<tr>
<td>12.Self discharge</td>
<td>Store the batteries at constant temperature of 20±5°C, Measure the nominal capacity yearly for 10 years.</td>
<td>≤1%</td>
</tr>
</tbody>
</table>
SPECIFICATION

Model: ER14250

Thionyl Chloride Lithium Battery

- Characteristics:
  - Nominal capacity 0.5mA to 2.0V: 1.2Ah
  - Nominal voltage: 3.6V
  - Max. Continuous current: 50mA
  - Max. Pulse current: 100mA
  - Weight: 10g
  - Dimension: φ14.5*25.0mm
  - Operating temperature range: -55°C to +85°C

- Terminals available:
  - AX: axial leads
  - T: welding pins
  - P: plastic plug

- Special design is acceptable
- Data above is for reference

Li-SOCl₂

- Characteristic curves

Discharge performance (25°C)

Capacity VS Current

Voltage VS Temperature