6LR61

Specifications for Non-Hg Alkaline Battery

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Product Model: PKCELL-6LR61-9V

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(The manufacturer keeps privilege to modify the product specifications and data without notice)
Specifications for Non-Hg 6LR61 Alkaline Battery

1. **Product Model**
   6LR61

2. **Chemical System**
   Alkaline battery
   (Non-Hg, Non-Cadmium)

3. **Specification (mm)**
   - Length: 43.3~44.5
   - High: 46.5~48.5
   - Breadth: 15.5~17.5

4. **Nominal Voltage**: 9V

5. **Storage Performance**
   After 12 months storage at specified conditions, discharge capacity should be no less than 90% of the original discharge capacity.

6. **Mercury Content**: Less than 1ppm

7. **Electrical Performance** (3.9Ω 0.3S 20±2℃)

<table>
<thead>
<tr>
<th>/</th>
<th>Open Circuit Voltage (V)</th>
<th>Closed Circuit Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial period</td>
<td>Above 9.5</td>
<td>Above 8.8</td>
</tr>
<tr>
<td>After 12 months</td>
<td>Above 9.2</td>
<td>Above 8.6</td>
</tr>
</tbody>
</table>

8. **Discharge Capacity** (20±2℃，R H：45%~75%)

<table>
<thead>
<tr>
<th>Load</th>
<th>270Ω</th>
<th>180Ω</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge way</td>
<td>1h/d</td>
<td>24h/d</td>
</tr>
<tr>
<td>Final voltage</td>
<td>5.4V</td>
<td>4.8V</td>
</tr>
<tr>
<td>Initial period</td>
<td>18h</td>
<td>11.6h</td>
</tr>
</tbody>
</table>

Pils check the sketch map as following
9. Performance
(1) Spillage proof test at over-discharge
   The number of samples: 9
   Test condition: 20±2°C, relative humidity 45%-75%
   Test method: 20Ω continuous discharge at 48h
   Requirements: no spillage at eyesight, the distortion of total height of the battery will not exceed 0.2mm, the max allowable value.
   Standard: 0/9
(2) Spillage proof test at high temperature
   The number of samples: 20
   Test condition: 45±2°C, relative humidity 85%-95%
   Test method: Under the prescriptive test conditions, the samples are stored for 30 days. Then they are took out and placed under 20±2°C, relative humidity 45%-75% conditions for 4 to 24 hours for observation.
   Requirements: no spillage at eyesight, the distortion of total height of the battery will not exceed 0.2mm, the max allowable value.
   Standard: 0/20

10. Safety performance
The performance of explosion protection due to the external short circuit
The number of samples: 10
Test condition: 20±2°C, relative humidity 45%-75%
Test method: Under the prescriptive test conditions, external short circuit lasts for 24 hours
Requirements: no separation occurs between the negative terminal and the body of the battery.
Standard: 0/10

11. Guarantee period: 5 years

12. Label on the product:
The following items are labeling on the battery surface:
   (1) Model: 6LR61
   (2) Trademark: PKCELL
   (3) Nominal voltage: 9V
   (4) Polarity: “+” and “—”
   (5) Precautions: Do not attempt to recharge a battery, and Do not dispose of batteries in fire.
   (6) Manufacturer: Pkcell
13. Precautions of use:
(1) Since the battery is not manufactured for recharging, there are risks of electrolyte leakage or causing damage to the device if the battery is charged.
(2) The battery shall be installed with its “+” and “-” polarity in correct position, otherwise may cause short-circuit.
(3) Short-circuit, heating, disposing of into fire and disassembling the battery are prohibited.
(4) Battery cannot be forced discharged, which lead to excess gassing and may result in bulging leakage and de-crimping of cap.
(5) New and used batteries cannot be used at the same time, when replaced batteries recommend to replace all and with the same brand type.
(6) Exhausted batteries should be removed from compartment to prevent over-discharge, which cause leakage damage to the device.
(7) Direct soldering is not allowed, which will damage the battery.
(8) Battery should be kept out of the reach of children to prevent swallow, in case of accident should contact physician at once.

Schematic diagram of discharge:

discharge Load: 270 Ω
discharge Load: 180 Ω