

# PKCELL

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**SHENZHEN PKCELL BATTERY CO., LTD**

6LR61

**Specifications for Non-Hg Alkaline Battery**

Compiled by: Zhijiang Li

Checked by: Beiqian Ding

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Product Model: PKCELL-6LR61-9V

Website: [www.pkcell.net](http://www.pkcell.net)

E-mail: [pkcell@pkcell.net](mailto:pkcell@pkcell.net)

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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**

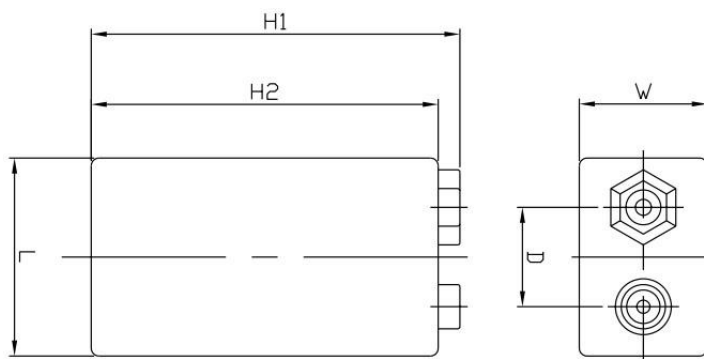
6LR61

**2 Chemical System**

Alkaline battery  
(Non-Hg, Non-Cadmium)

**3 Specification (mm)**

Length : 43.3~44.5  
High : 46.5~48.5  
Breathth : 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°C)**

/	Open Circuit Voltage (V)	Closed Circuit Voltage (V)
Initial period	Above 9.5	Above 8.8
After 12 months	Above 9.2	Above 8.6

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

Load	270Ω	180Ω
Discharge way	1h/d	24h/d
Final voltage	5.4V	4.8V
Initial period	18h	11.6h

**Pls check the sketch map as following**

## 9. Performance

(1) Spillage proof test at over-discharge

The number of samples: 9

Test condition:  $20\pm 2^{\circ}\text{C}$ , relative humidity 45%-75%

Test method:  $20\Omega$  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:  $45\pm 2^{\circ}\text{C}$ , 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  $20\pm 2^{\circ}\text{C}$ , 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:  $20\pm 2^{\circ}\text{C}$ , 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: 3 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: “+” “—”

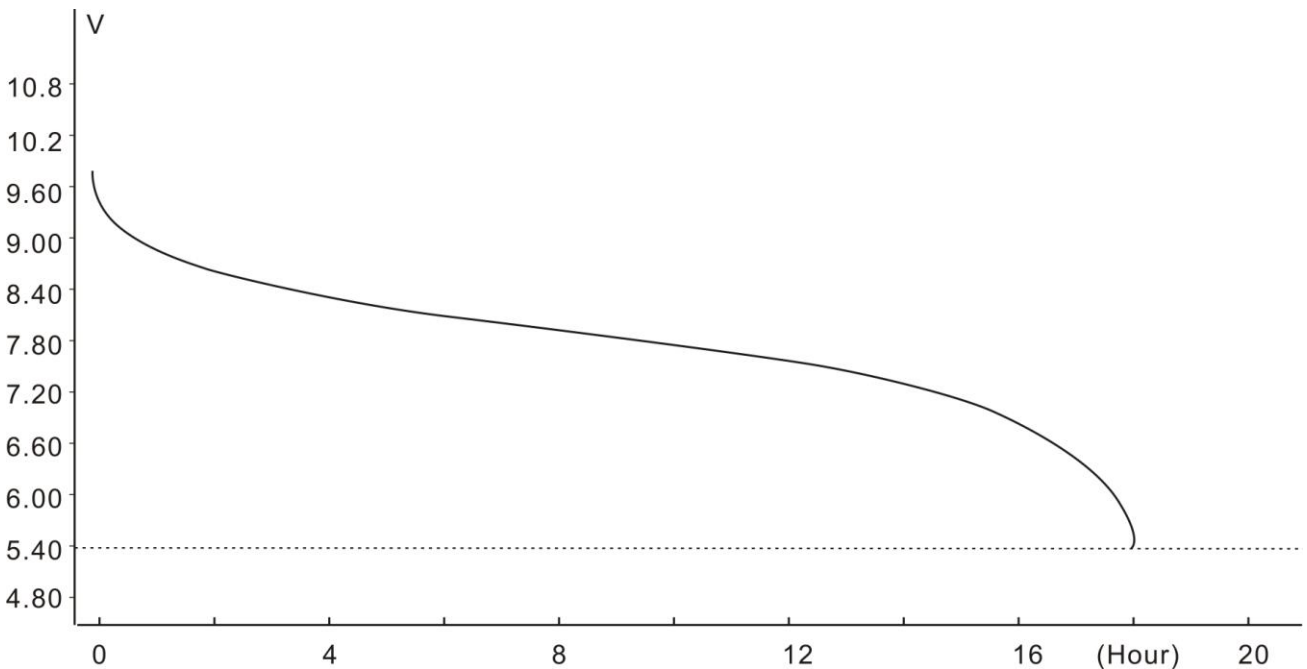
(5) Precautions: Do not attempt to recharge a battery, and Do not dispose of batteries in fire.

(6) Manufacturer: Pkcell

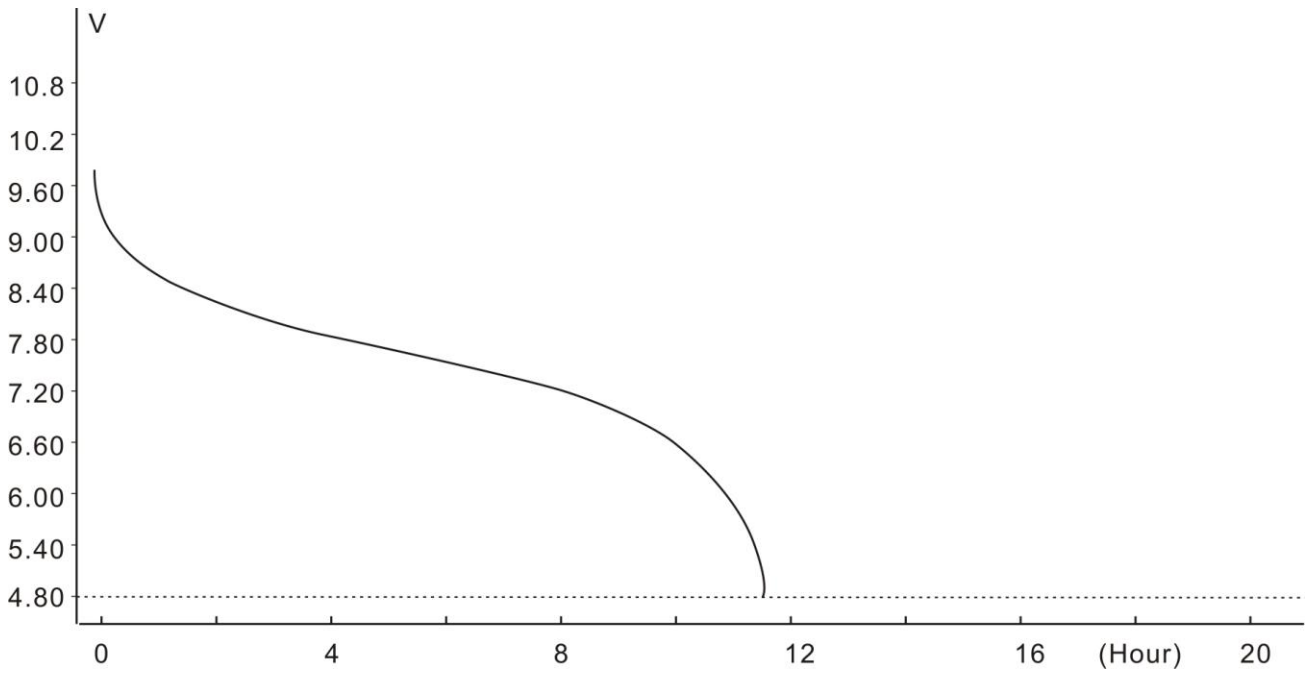
### 13. Precautions of use:

- (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 leads 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 causes 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  $\Omega$



discharge Load: 180  $\Omega$