

PKCELL

SHENZHEN PKCELL BATTERY CO., LTD

27A

Specifications for Alkaline Battery

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Product Model: PKCELL-27A

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(The manufacturer keeps privilege to modify the product specifications and data without notice)

Specifications for 27A Alkaline Battery

1. Preface

The specification is suitable for the performance of alkaline 27A battery produced by the SHENZHEN PKCELL BATTERY CO., LTD.

1.1 Model
27A

1.2 Reference Standard
IEC 86-1(1996-07) ---Primary Batteries – General
IEC 60086-2(1997-07) ---Primary Batteries – Specification Sheets

1.3 Height A: 27.4~28.4
Diameter ϕ : 7.2~8.1

2. Chemical System

Alkaline battery

3. **Nominal Voltage:** 12.0V

4. **Average Weight:** 4.6g

5. **Nominal Capacity**

20mAh (Condition: discharge 24h every day, at 20K Ω , 20 \pm 2 $^{\circ}$ C, end voltage: 6.0V)

6. **Electrical Performance**

(Condition: load Impedance: 100 Ω , precision: \pm 0.5%, test time: 0.3s, test temperature: 20 \pm 2 $^{\circ}$ C, test within 30days)

	Open Circuit Voltage (V)	Closed Circuit Voltage (V)	Standard
Initial period	12.20	11.0	MIL-STD105E, Common II, AQL=0.4
After 12months	12.00	10.50	

7. Discharge Performance

(Condition: test temperature: 20 \pm 2 $^{\circ}$ C, test within 30days)

	Discharge Condition			Minimum average discharge time	
	load	Discharge way	End voltage (V)	Initial period	Storage 12months
IEC item	20K Ω	24H/d	6	35h	30h

Test Standard: The Number Sample: 9pcs.

Average discharge time not less than minimum appointed average discharge time, and number of battery those discharge time less than 80% of appointed not more than 1pcs, can be considered to be accord with the standard.

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8. Spillage Performance

Item	Condition	Time limit	Characteristic	Checking Standard
Spillage proof at over-discharge	20K Ω continuous discharge, Temperature: 20 \pm 2 $^{\circ}$ C, Relative Humidity: 65 \pm 20%RH	discharge continuously to 4.8V	No deformation, no spillage, the distortion of total height of the battery not exceed 0.2mm	N=30 AC=0 RE=1

9. Safety performance

Item	Condition	Time limit	Characteristic	Checking Standard
Short circuit	Temperature: 20 \pm 2 $^{\circ}$ C	24h	No explosion	N=30, AC=0, RE=1

10. Label on the battery

The following items are labeled on the battery surface:

- a) Model: 27A
- b) Brand name: PKCELL
- c) Nominal Voltage: 12V
- d) Polarity: “+”“—”
- e) Precautions: Do not attempt to recharge a battery, and Do not dispose of batteries in fire.
- f) Manufacturer: Shenzhen Pkcell Battery Co., Ltd

11. Precautions of use:

(1) The battery is designed not to be recharged, the forced recharge will result in the spillage or the risk of equipment damage.

(2) The labels “+”“—” for the battery should installed correctly according to the directions specified by the equipment to be used.

(3) Short circuit, heating, burning and unsealing for the battery are forbidden.

12. Guarantee period: 3 years under nominal temperature**13. Discharge curve:** (Test temperature: 20 \pm 2 $^{\circ}$ C)

Discharge method: 20K Ω 24h/day (Chart 1)

Discharge Characteristics: 20KΩ, 24h/day
Temperature: 20±2°C

