



Shenzhen CLN Electronics Co.,Ltd

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27A Specification Datasheet

1、Description:

The datasheet is suitable for 27A alkaline button cell battery packs manufactured by Shenzhen CLN Electronics Co., Ltd.

1.1 Model

JIS	IEC	Other
27A	—	L828/A27

1.2 Reference Standard

IEC 68-1 (1996-07) ---Primary Batteries General

IEC 60086-2 (1997-07) ---Primary Batteries-Specification Sheets

2、Chemical Composition

(+) MnO₂(C) KOH Zn (-)

3、Nominal Voltage: 12.0V

4、Average Weight: 5.02g

5、Nominal Capacity

22mAh (20±2°C以 20KΩ resistance, continuous discharge, cut-off voltage 6.0V)

6、Electric specification

(condition: load 100Ω, precision±0.5%, testing temperature: 20±2°C. Testing in a month)

	Floating voltage (V)	Load voltage (V)	Acceptance standard
new	12.30	5.10	MIL-STD105E,common II , twice sampling, AQL=0.4
After 12 months	12.00	4.90	

7、 Discharge specification

(condition: testing temperature $20 \pm 2^{\circ}\text{C}$. Testing in a month.)

	Discharge condition			Minimum discharge time	
	Discharge load	Daily discharge time	Cut-off voltage (V)	new	After 12 months
result	1K Ω	24h	6.0	100mins	85mins
reference	200K Ω	24h	6.0	45h	38h

8、 Leak specification

item	condition	time	specification	Acceptance standard
Overdischarge leak specification	20K ω continuous discharge , temperature: $20 \pm 2^{\circ}\text{C}$, relative humidity: 65 $\pm 20\%$ RH	Continuous discharge 48hours	No leak situation	N=9, Ac=0, Re=1

9、 Safety specification

item	condition	time	specification	Acceptance standard
Short circuit function	temperature: $20 \pm 2^{\circ}\text{C}$	24hours	No exploding	N=9, Ac=0, Re=1

10、Mark: On the batteries

- (1) Model: 27A
- (2) Manufacture name: ShenZhen CLN Electronics Co., Ltd
- (3) Nominal voltage: 12V
- (4) Polarity: “+”, “-”

11、Attentions

- (1) Do not charge the battery.
- (2) Fix the battery correctly.
- (3) Do not short circuit the battery, heat, put into the fire or try to disconnect

12、Shelf life: 12 months.

13、Discharge curve: (testing temperature $20\pm 2^{\circ}\text{C}$)

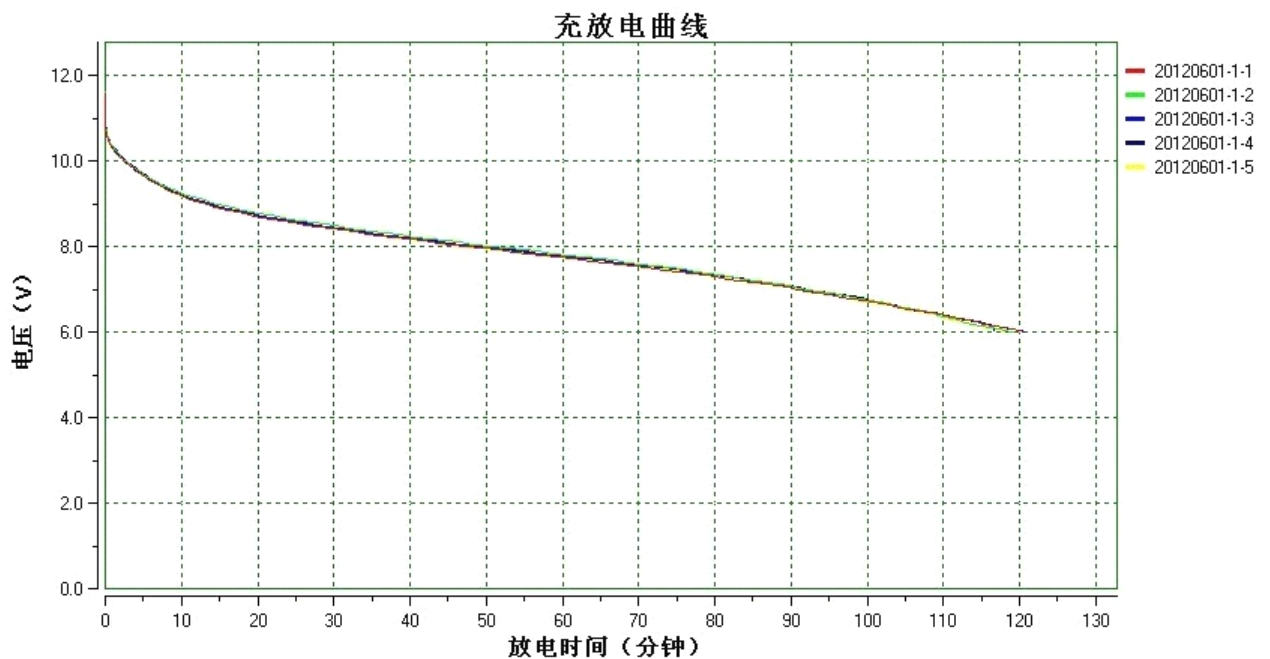
Discharge method: $20\text{K}\Omega/1\text{K}\Omega$ daily 24hours (please refer to the attached files 1, 2)

14、Contour dimension:

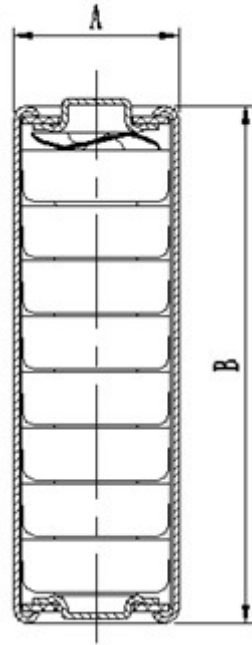
Height: 27.3—27.8mm

Diameter: 7.80—8.10mm

Continuous discharge curve at 1000Ω ($20\pm 2^{\circ}\text{C}$)



Battery size and structure chart(unit:mm)



A: 7.8

B: 27.4

