

27A Specification Datasheet

1、Description:

The datasheet is suitable for 27A alkaline button cell battery packs.

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

(+) $\text{MnO}_2(\text{C})$ KOH Zn (-) | |

3、Nominal Voltage: 12.0V

4、Average Weight: 5.02g

5、Nominal Capacity

22mAh ($20 \pm 2^\circ\text{C}$ 以 $20\text{K } \Omega$ resistance, continuous discharge, cut-off voltage 6.0V)

6、Electric specification

(condition: load $100\ \Omega$, precision $\pm 0.5\%$, testing temperature: $20 \pm 2^\circ\text{C}$. 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 ± 2 $^{\circ}\text{C}$, relative humidity: $65\pm 20\%\text{RH}$	Continuous discharge 48hours	No leak situation	N=9, Ac=0, Re=1

9、Safety specification

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

On the batteries

Model: 27A

Nominal voltage: 12V

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 $20\pm 2^{\circ}\text{C}$)

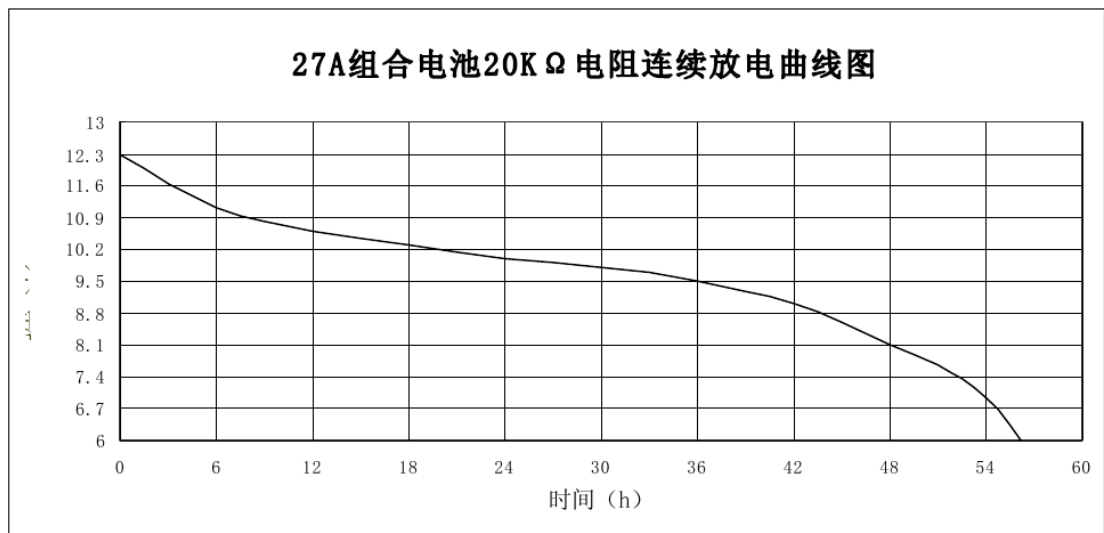
Discharge method: 20K Ω /1K Ω daily 24hours (please refer to the attached files 1, 2)

14、Contour dimension:

Height: 27.3—27.8mm

Diameter: 7.80—8.10mm

1



2 (27A 组合电池 1 千欧电阻连续放电曲线图)

