
SPECIFICATIONS FOR LITHIUM BATTERY

CR2025

APPROVED SIGNATURE	:
YOUR NAME	
TITLE	:
DATE	:

Typed :

Approved :

1. 【SCOPE】

This specification applies to the following 3.0v lithium button cell CR2025 made by Shenzhen Wecodo Technology Co., Ltd.

2. 【RATINGS】

TABLE I :

ITEM		UNIT	SPECIFICATIONS	CONDITIONS
Nominal voltage		V	3.0	
Nominal capacity		mAh	150	Standard discharge with load 15kΩ
Instantaneous short-circuit current		mA	≥ 250	Time ≤ 0.5 second
Off-load voltage		V	≥ 3.20	
Operating temperature		℃	-20~60	
Standard weight		g	~2.3	Unit cell
Service output	Initial	Standard	840 h	Continuous discharge with load 15kΩ, till 2.0v end-voltage at 20~25℃
	After 12 months storage	Standard	790 h	

TABLE II :

ITEM	CONDITIONS	CHARACTERISTICS	
Thermal durability	Kept for 20 days at 50℃ ± 3 ℃ , then continuously discharge with 15kΩ load till 2.0v end-voltage	Standard	790 h
Self-discharge rate	Stored for 12 months at normal temperature and humidity	$\leq 1\%$	

3. 【PERFORMANCE AND TEST METHODS】

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, 20℃~25℃; environmental humidity, 65 \pm 20%. Please refer to Table III

4. 【SUGGESTIONS AND CAUTIONS】

- 4.1 Install batteries correctly.
- 4.2 Ensure the contact points to be clean and conductive.
- 4.3 Do not mix different types, different brands batteries to serve together.
- 4.4 Do not heat, recharge the batteries.
- 4.5 Do not dispose of the batteries in fire.
- 4.6 Keep away from the small children, if swallowed promptly see doctor.
- 4.7 Pay attention to the producing date.

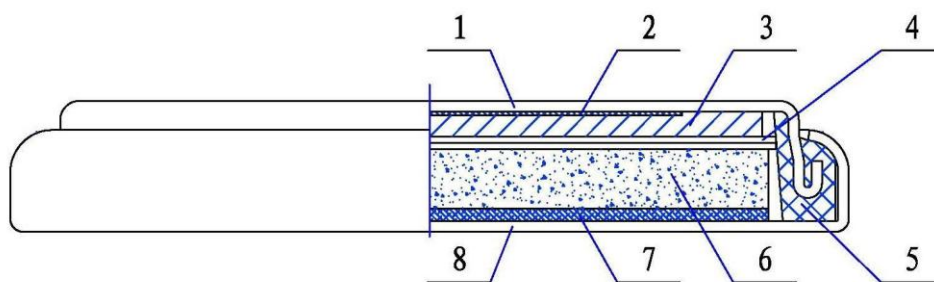
TABLE III:

No	ITEM	TEST METHODS	STANDARD	
			Diameter	20.0 (-0.20) mm
1	Dimensions	Using vernier caliper (accuracy ≥ 0.02) while avoiding short-circuit	Height	2.5(± 0.1) mm
2	Off-load voltage	Using multimeter (accuracy $\geq 0.25\%$) internal resistance $\geq 1\text{M}\Omega$	$\geq 3.20\text{v}$	
3	Instantaneous short-circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour	$\geq 250\text{ mA}$	
4	Appearance	Eyeballing	Bright, clean, no rust, no leakage, And no flaw	
5	Capacity	Continuously discharge for with load $15\text{k}\Omega$, temperature at $20\sim 25^\circ\text{C}$, humidity at $65\pm 20\%$ till 2.0v end-voltage (for fresh battery only: within 3 months)	$\geq 840\text{ h}$	
6	Vibration test	Put battery on the platform of the vibrations machine, start the machine and adjust the frequency form 10 times per minute to 15 times per minute. keep it running for an hour	Characteristics keep stability	
7	Leakage at high temperature test	Stored under temperature (50°C) for 10 days	No leakage allowed	
8	Over discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed	

5. 【CUTAWAY DIAGRAM OF 3.0V LITHIUM MANGANESE DIOXIDE BUTTON CELL】

3. 0V 锂—二氧化锰扣式电池剖面图

Cutaway Diagram of 3.0V Lithium Manganese Dioxide Button Cell

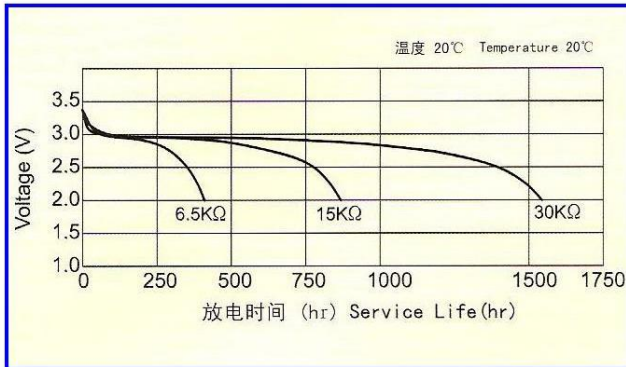


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|-----------------|---------------------------|------------------------------|---------------|
| 1、负极壳 | 2、负极集流网 | 3、负极锂片 | 4、隔膜 |
| 5、密封胶圈 | 6、正极片 | 7、正极集流网 | 8、正极壳 |
| 1、Cathode Shell | 2、Cathode collector net | 3、Cathode (slice of lithium) | 4、Septum |
| 5、Gasket | 6、Anode(MnO_2) | 7、Anode collector net | 8、Anode shell |

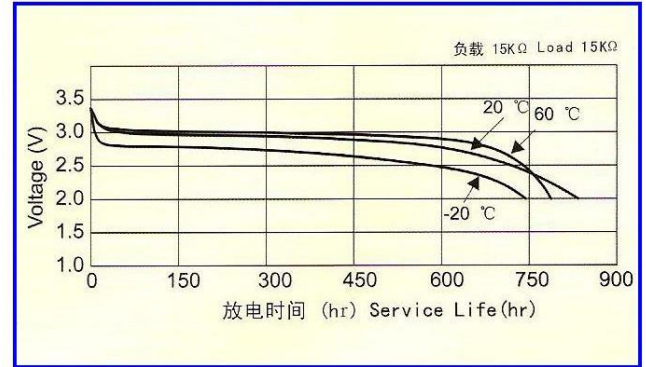
6. 【DISCHARGE CHARACTERISTICS】

标准曲线 STANDARD CHARACTERISTICS

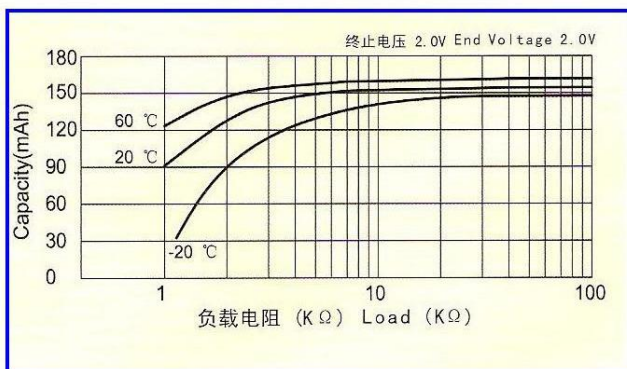
定电阻放电曲线
Discharge Characteristics



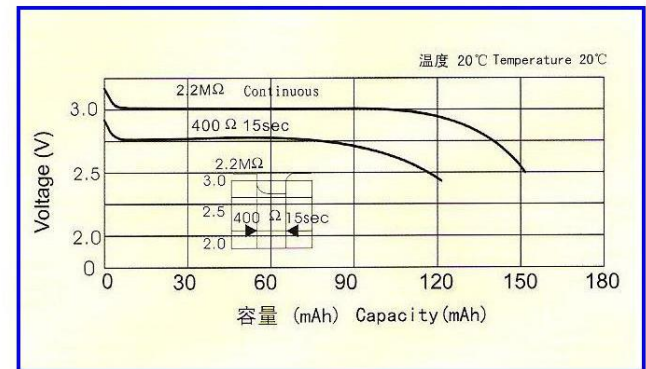
温度放电曲线
Temperature Characteristics



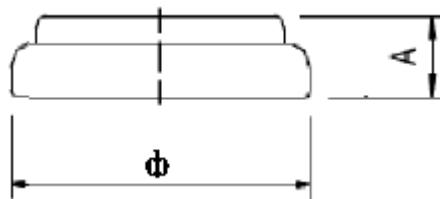
电阻容量曲线
Load-capacity



脉冲放电曲线
Pulse Discharge Characteristics



7. 【DIMENSIONS】



$$\Phi=20.0 (-0.2) \text{ mm} \quad A=2.5 (\pm 0.1) \text{ mm}$$

8. 【APPLICATION RANGE】

1. Often utilized in computer motherboards to maintain BIOS settings and clock functions.
2. Various small remote controls, such as those for garage door openers and home security systems.
3. Some electronic scales and small kitchen appliances.
4. Small Bluetooth speakers and headsets.
5. Certain medical devices like portable nebulizers and blood pressure monitors.
6. Some smart home sensors and small security cameras.