

广州市迈可电池有限公司 GUANGZHOU MARKYN BATTERY CO., LTD

APPROVAL SHEET

MESSRS	
BRAND	GM®POWER®
PRODUCT	3.0V LITHIUM-MANGANESE BUTTON CELL
MODEL	CR1025 (30mAh)
PREPARED BY	
APPROVED BY	
DATE	

Add: Block 2, Haijing Road 06, Markyns Industrial Zone, Xinzao Town, Panyu District, Guangzhou

Tel: 86-20-84720852 Fax: 86-20-84720936

Email: info@gmbattery.net Website: www.gmbattery.com



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1. [SCOPE]

This specification applies to the following 3.0v lithium button cell CR1025made by GUANGZHOU MARKYN BATTERY CO., LTD.

2. [RATINGS]

TABLE I:

ITEM		UNIT	SPECIFICATIONS	CONDITIONS	
Nomi	nal voltage	V	3.0	Standard discharge	
Nominal capacity		mAh	30	Standard discharge	
Instantaneous short–circuit current		mA	≥80	Time≤0.5 second	
Off-load voltage		V	≥3.20		
Storage	Storage temperature		0~35		
Standard weight		g	0.6	Unit cell	
Service	Initial Standard Service	170 h	Continuous discharge with load 15kΩ, till 2.0v		
output	After 12 months storage	Standard	160 h	end-voltage at 20~25°C	

TABLE II:

ITEM	CONDITIONS	CHARACTERISTICS	
Thermal durability	Kept for 20 days at $60^{\circ}\text{C}\pm3^{\circ}\text{C}$, then continuously discharge with $15\text{k}\Omega$ load till 2.0v end-voltage	Standard	160 h
Self-discharge rate	Stored for 12 months at normal temperature and humidity	*	5%

3. **[PERFORMANCE AND TEST METHODS]**

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, $20^{\circ}\text{C} \sim 25^{\circ}\text{C}$; environmental humidity, 65±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.



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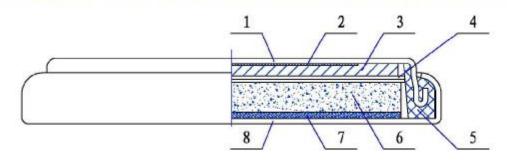
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No	ITEM	TEST METHODS	STANDARED		
1	Dimensions	Using vernier caliper (accuracy≥0.02) while	Diameter	10.0(-0.20) mm	
,	Dillielisions	avoiding short-circuit	Height	2.5(-0.20) mm	
2	Off-load voltage	Using multimeter (accuracy≥0.25%) internal resistance≥1MΩ ≥3.20v			
3	Instantaneous short-circuit current	Time of short-circuit should be less than 0.5 second and avoid repeated test within half an hour	\ \\\	>80 mA	
4	Appearance	Eyeballing	Bright, cle leakage, Ar	an, no rust, no nd no flaw	
5	Capacity	Continuously discharge for 8 hours with load $15k\Omega$, temperature at $20\sim25$ °C, humidity at $65\pm20\%$ till 2.0v end-voltage (for fresh battery only: within 3 months)	≥170 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			
7	Leakage at high temperature	Stored under temperature (60°C) for 20 days No leakage allow			
8	Over discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No lea	kage 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



- 1、负极壳
- 2、负极集流网
- 3. 负极锂片
- 4、隔膜

- 5、密封胶局
- 6、正被片
- 7、正极桑流网
- 8、正极壳

- Cathode She I 2. Cathode collector net
- 3. Cathode (slice of lithium)
- 4. Septum

- 5, Gasket
- 6、Anode(MnO₂)
- 7. Anode collector net
- 8, Anode shell



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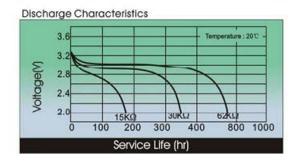
6. [DISCHARGE CHARACTERISTICS]

CR1025

外形 APPEARANCE



STANDARD CHARACTERISTOS



规格 SPECIFICATIONS

편 명 Model	CR1025	尺 寸 Dimensions(mm)
标称电压 Nominal Voltage	3(V)	
标称容量 Nominal Capacity	30(mAh)	(+)
标准电阻 Load Resistance	68(KΩ)	
重風 Weight	0.6(g)	*** 7 3 3
使用温度 Using Temperature	-20°C~60°C	



