

APPROVAL SHEET

MESSRS		
BRAND	Ciblénergie	
PRODUCT	3.0V LITHIUM-MANGANESE BUTTON CELL	
MODEL	CR2430	
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DATE	JAN. 18, 2006	



1. [SCOPE]

This specification applies to the following 3.0v lithium button cell CR2430

2. **[RATINGS]**

TABLE I:

ITEM		UNIT	SPECIFICATIONS	CONDITIONS	
Nominal voltage		V	3.0	Standard discharge	
Nominal capacity		mAh	270	Standard discharge	
Instantaneous short–circuit current		mA	≥250	Time≪0.5 second	
Off-load voltage		V	≥3.20		
Storage temperature		°C	0~35		
Standard weight		g	4.3	Unit cell	
Service output	Initial	Standard	760 h	Continuous discharge with - load 7.5kΩ, till 2.0v end-voltage at 20~25℃	
	After 12 months storage	Standard	720 h		

TABLE II:

ITEM	CONDITIONS	CHARACTERISTICS	
Thermal durability	Kept for 20 days at $60^{\circ}C\pm 3^{\circ}C$, then continuously discharge with 7.5k Ω load till 2.0v end-voltage	Standard	720 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, $20^{\circ}C \sim 25^{\circ}C$; 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.

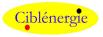
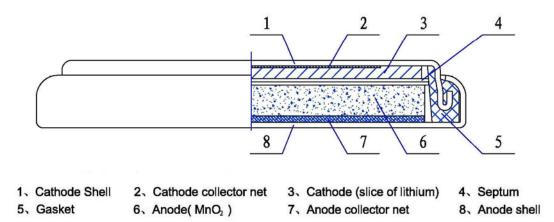


TABLE III:

No	ITEM	TEST METHODS	STANDARED		
1	Dimensions	Using vernier caliper (accuracy≥0.02) while avoiding short-circuit	Diameter	24.5 (-0.20) mm	
			Height	3.0(-0.20) mm	
2	Off-load voltage	Using multimeter (accuracy \geq 0.25%) internal resistance \geq 1M Ω	≥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	≥250 mA		
4	Appearance	Eyeballing	Bright, clean, no rust, no leakage, And no flaw		
5	Capacity	Continuously discharge for 8 hours with load 7.5k Ω , temperature at 20~25°C, humidity at 65±20% till 2.0v end-voltage (for fresh battery only: within 3 months)	≥760 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	Stored under temperature (60 $^\circ\!\mathrm{C}$) for 20 days	No leakage allowed		
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**

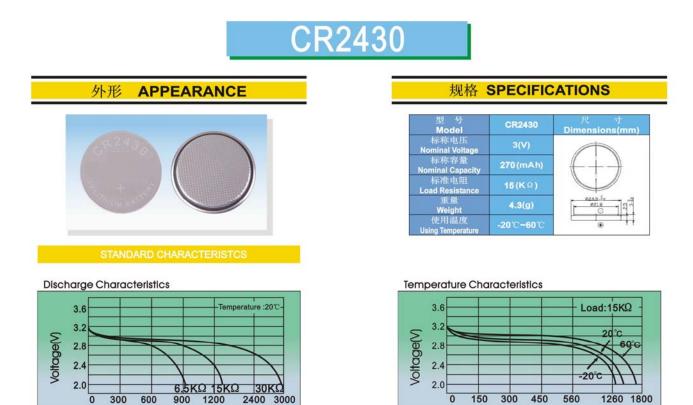
Cutaway Diagram of 3.0V Lithium Manganese Dioxide Button Cell





6. [DISCHARGE CHARACTERISTICS]

Service Life (hr)



Service Life (hr)