Product Specification

BRAND				
PRODUCT	3.0V LITHIUM-MANGANESE BUTTON CELL			
MODEL	CR2477			
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APPROVED BY				
DATE	JAN.18,2011			

1. [SCOPE]

This specification applies to the following 3.0v lithium button cell CR2477 made by CHEAPE TECHNOLOGY INTERNATIONAL LTD

2.[Main technical parameters]

TABLE I:

I	TEM	UNIT	SPECIFICATIONS	CONDITIONS	
Nominal voltage		V	3.0	Standard discharge	
Nominal capacity		mAh	1050	Standard discharge	
Instantaneous short-circuit current		mA	≥400	Time≤0.5second	
Off-load voltage		V	3.25-3.60	Unit cell	
Storage temperature		J	0-40	Unit cell	
Standard weight		g	about 8.50	Only apply to this style cell	
Service - output	Initial	h	≥792		
	After 12 months storage	h	≥776	Continuous discharge with load 3.0k Ω ,till 2.0v end-voltage at $20\pm2^{\circ}\mathrm{C}$.	

TABLE II:

ITEM	CONDITIONS	CHARACTERISTICS
	Stored for 12 months at normal	
Self-discharge	temperature,then continuously	Less than ≤2%
rate	discharged with $15k\Omega$ load till	Less than \$2%
	2.0v end-voltage	

3.[PERFORMANCE AND TEST METHODS]

Unless otherwise stated, all the testing is carried out under the condition: environmental temperature, 20° C- 25° C; environmental humidity, $65\pm20\%$.

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 form the small children, if swallow promptly see dJANor
- 4.7 Pay attention to the producing date

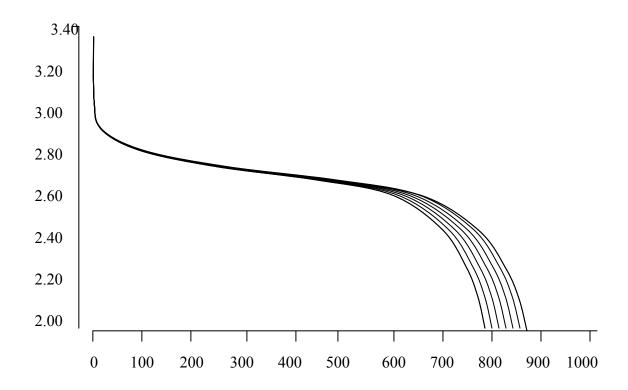
TABLE III:

NO	ITEM	TEST METHODS	STANDARED		
1	Dimensions	Using vernier caliper(accuracy≥0.02) while avoiding short-circuit	Diameter Height	24.50(-0.15)mm 7.70(-0.20)mm	
2	Off-load voltage	Using multimeter(accuracy≥ 0.25%)internal resistance≥1MΩ	3.25-3.60V		
3	Instantaneous Short-circuit current	Time of short-circuit should be less than 0.5 Sencond and avoid repeated test within half An hour	≥400mA		
4	Appearance	Eyeballing	Bright ,clen,no rust,no leakage,And no flaw		
5	Capacity	Continuously discharge for 8 hour with load 3.0kΩ, temperature at 20-25°C, humidity at 65±20% till 2.0v end-voltage(for fresh battery only:within 3 months)	≥792h		
6	Vibration test	Put battery on the platform of the vibrations Machine, start the machine and adjust the Frequency form 100times per minute to 150 Times per minute.keep it running for an hour	Characteristics keep stability		
7	Leakage at hight temperature	Stored under temperature(45°C)for 30 days	Leakage rate≤0.1‰		
8	Over Discharge Test	After 2.0v end-voltage, continuously discharged for 5 hours	No leakage allowed		

5. [DISCHARGE CHARACTERISTICS]

With load $3.0k\Omega$ {CR2477 (LC)}

Voltage (V)



Time (h)

