

TECHNICAL SPECIFICATION
技术规格书

LITHIUM MANGANESE DIOXIDE BUTTON BATTERY
锂-二氧化锰扣式电池

MODEL/型号: CR2016

Typed/制作	
Approved/审批	
Date/日期	2022

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1. Scope/范围

This specification applies to lithium manganese dioxide button battery made by Shenzhen Tcbest Battery Industry Co.,Ltd.

本规格书的各种技术参数适用于深圳天诚巨能科技有限公司生产的锂锰扣式电池。

Model/型号: CR2016

Reference Document/参考标准: IEC60086-1-2015, IEC60086-2-2015
GB/8897-1-2013, GB/8897-2-2013

2. Nominal Voltage 公称电压 3.0V

3. Nominal Capacity 公称容量 80mAh

Condition: Continuous discharge at $20\pm 2^{\circ}\text{C}$ under load $30\text{k}\Omega$ for 24 hrs/day to EPV 2.0V

条件: 在 $20\pm 2^{\circ}\text{C}$, 负载电阻 $30\text{k}\Omega$ 下连续放电, 终止电压 2.0V

4. Off-load Voltage/开路电压 $\geq 3.2\text{V}$

Acceptance Standard: MIL-STD-105E, Class II, Double Sampling, AQL=0.4

验收标准 正常检验双次抽样, AQL=0.4

5. Temperature Range/工作温度 $-30\sim 70^{\circ}\text{C}$

6. Average Weight/平均重量 1.6g

7. Chemical System/化学构成 Li/MnO_2

8. Discharge Performance/放电性能

	Minium AverageDuration 平均最小放电时间 (h)	Conditions/条件
New battery/新电池 Tested within 30days after delivery	750	Continuous discharge at $20\pm 2^{\circ}\text{C}$, $55\pm 20\text{RH}\%$ under load $30\text{k}\Omega$ for 24 hrs/day to EPV 2.0V 在 $20\pm 2^{\circ}\text{C}$, $55\pm 20\text{RH}\%$ 负载电 阻 $30\text{k}\Omega$ 下连续放电, 终止电压 2.0V
After 12 mth.at $20\pm 2^{\circ}\text{C}$ 在 $20\pm 2^{\circ}\text{C}$ 下存放 12 个月	740	
After 3 mth.at $45\pm 2^{\circ}\text{C}$ 在 $45\pm 2^{\circ}\text{C}$ 下存放 3 个月	740	

Acceptance Standard

验收标准

(1) Test nine batteries

抽取 9 只电池放电

(2) Calculate the average without the exclusion of any result

计算 9 只电池的平均放电时间

(3) If this average is equal to or greater than the specified figure and no more than one battery has a service output of less than 80% of the specified figure, the battery are considered to conform to service output.

如果平均值等于或大于规定值, 则判放电时间合格

(4) One re-test is allowed to confirm the previous result.

如以上结果不合格, 可做一次重测。

9. Leakage/漏液

Item 项目	Requirements 要求	Test Condition 测试条件
Leakage 漏液	No Leakage 没有漏液	45±2℃, 55±20RH%, 30days 45±2℃, 55±20RH%, 30 天

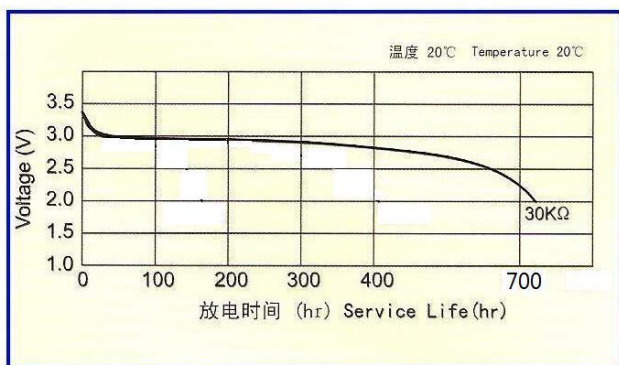
10. Self-discharge/自放电: ≤1%/year (Condition: 20±2℃, 55±20RH%, 12mth)

11. Shelf Life/存放期: 1 year (Condition: 20±2℃, 55±20RH%)

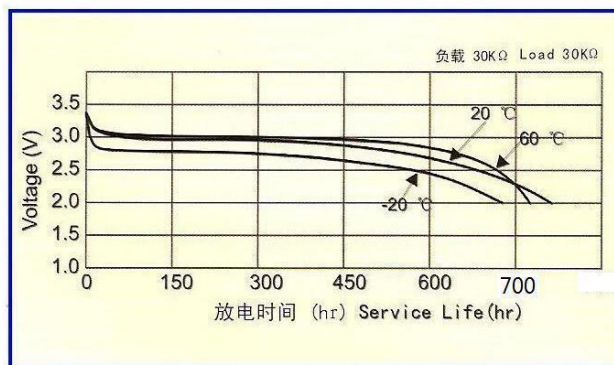
12. Discharge Characteristics/放电图

标准曲线 STANDARD CHARACTERISTICS

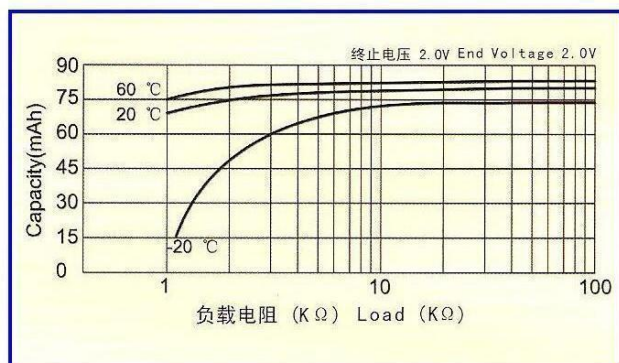
定电阻放电曲线
Discharge Characteristics



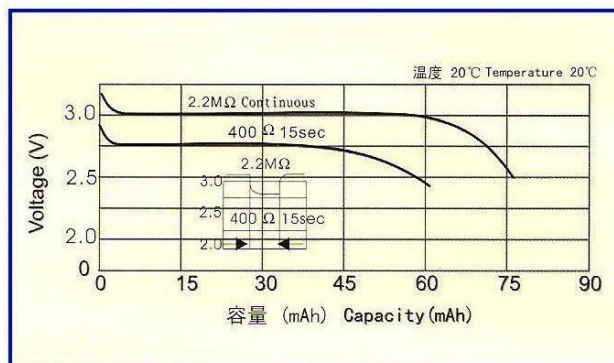
温度放电曲线
Temperature Characteristics



电阻容量曲线
Load-capacity



脉冲放电曲线
Pulse Discharge Characteristics



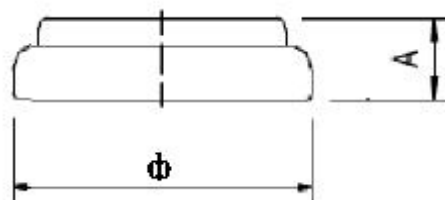
13. Compliance & Environmental Information/环保法规信息

This product complies with EU Battery Directive 2006/66/EC, RoHS Directive

本产品符合欧盟电池指令 2006/66/EC 和 RoHS 指令。

14. Battery Dimensions

电池尺寸



$\Phi=19.7\sim20.0\text{mm}$ $A=1.4\sim1.7\text{mm}$

15. Caution for Use/使用注意事项

- (1) The battery shall be installed with its “+” and “-” polarity in correct position, otherwise may cause short circuit.
正确安装和使用电池，避免装错正负极防止短路。
- (2) Short-circuiting, heating, disposing of into fire and disassembling the battery are prohibited
请勿将电池短路、加热、投入火中或拆解电池。
- (3) New and used batteries cannot be used at the same time.
新、旧电池不能混用
- (4) Keep away from the small children, if swallowed promptly see doctor.
妥善保管电池，以防幼儿误吞。
- (5) Do not recharge the batteries.
请勿对电池进行充电

16. Marking on battery/标记

- | | |
|-------------------------------|--------|
| (1) Model/型号 | CR2016 |
| (2) Voltage/电压 | 3V |
| (3) Polarity Marking/正极标记 | “+” |
| (4) Brand of manufacturer/商标: | |
| (5) Others/其它 | |

17. Packing Specifications/包装资料

包装名称		材料	尺寸	数量
Tray		Plastic	134*165*7.5(mm)	5*5=25
Inner package		PVC Film	135*165*50(mm)	20*25=500
Carton Box		A=B	34.5*27.5*20(CM)	500*12=6000