深圳市耐科森电源科技有限公司
Shenzhen Naccon Power Technology Co., Ltd.

承 认 书

SPECIFICATION FOR APPROVAL

MODEL

型 号: AAA R03P 40分钟

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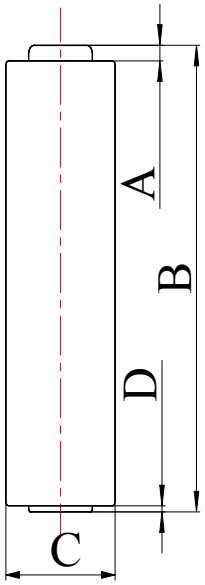
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1.范围/Scope

本规格书适用于下述碳性电池/This specification is suitable for the performance of following battery：

型 号 Model：
AAA / R03P

A:1.8-2.3mm	C:10.0-10.3mm
B:43.8-44.4mm	D:0.6-0.8mm



化学式/Chemical System： Zn/ZnCL—H_2O/MnO_2

标称电压/Nominal voltage： 1.5V

重金属含量/Heavy Metal Contents：

Hg	Cd	Pb
<1 ppm	<20ppm	<800ppm

2.额定值/Ratings

额定电压/Nominal Voltage		1.5V
使用温度范围 Temperature Range for operation	标准温度 Standard Temperature	20℃±2℃
	专用温度 Special Temperature	30℃±2℃
	高温 High temperature	45℃±2℃
相对湿度范围 Humidity Range for Storage	标准相对湿度 Standard Humidity	45%~75%
	专用相对湿度 Special Humidity	35%~65%
尺寸 Dimension	直径/Diameter	10.0~10.3mm
	高度/Height	43.8~44.4 mm
近似重量/Approx weight		7.6-7.8g

3.电性能/Electrical Characteristic

(条件：负载电阻 3.9Ω,精度±0.5%, 测量时间:0.3S,测量温度: 20℃±2℃。收货后 15 天内测试 condition: on-load resistance 3.9 Ω ,precision ± 0.5%,time:0.3S, temperature: 20 ℃ ± 2 ℃ 。Testing should be done within 15 days upon the receipt of goods. ）

	空载电压 /Off-load Voltage(V)	负载电压 /On-load Voltage(V)	瞬间电流 /Instance current(A)
新电/fresh Battery	1.67-1.71	1.400	2.5
室温存储 12 个月/stored for 12 months under Room Temp	1.65-1.68	1.300	2.0

4. 放电性能/ Discharge Characteristic

(条件:测量温度: 20℃±2℃。收货后 15 天内测试/condition: temperature: 20℃±2℃. Testing should be done within 15days upon the receipt of goods)

	放电条件/Discharge condition			最少平均放电时间/Minimum average Discharge time	
参考标准/reference standard	放电负载/ on-load resistance	每天放电时间 /Discharge time per day	终止电压 /end Voltage(V)	新电池 /fresh Battery	室温存储 12 个月 /stored for 12 months under Room Temp
	3.9Ω	24h/day	0.9V	≥35m	≥33m
	3.6Ω	15s/min, 24h/day	0.9V	≥200 次 cycles	≥168 次 cycles
	5.1Ω	4m/h , 8h/d	0.9V	≥90m	≥75 m
	10Ω	1h/d	0.9V	≥2.7h	≥2.3 m
	24Ω	15s/1m, 8h/day	1.0V	≥7.5h	≥6.5 m
	75Ω	4h/d	0.9V	≥24h	≥21 m

(验收标准：每一种放电条件取 9 只电池进行放电。平均放电时间等于或大于最少平均放电时间的规定值，而且放电时间少于规定值的 80%的电池数不大于 1，则认为电池的放电时间符合要求/Inspect standard: discharge 9 nos sample for each condition. It pass if average discharge time is equal to or more than minimum average value specified and the nos with discharge time less than 80% speclfied value is less than one.）

5．耐漏液性能/Anti-leakage characteristic

放电条件/Discharge condition	放电负载/on-load resistance	每天放电时间/Discharge time per day	终止电压/end Voltage(V)	特性/Characteristic	验收标准/Inspect standard
温度： 20℃±2℃ 相对湿度：45%~75% Tenp：20℃±2℃ Hunl： 45%~75%	3.9Ω	24h/d	0.35V	电池变形不超出电池尺寸的上限或没有可见漏液情况。 Deformation is less than 0.2mm and no visual leakage	N=30,AC=0, Re=1

6.标记/Marks:

在电池外标明以下内容:/the following message will be printed or stamped on the body of the battery:

(1) 型号/Model
(2) 标称电压/Nominal Voltage
(3) 极性/pole
(4) 警告/Warning
(5) 有效期日期/**Period of validity**
(6) 产地/COO/Made In China

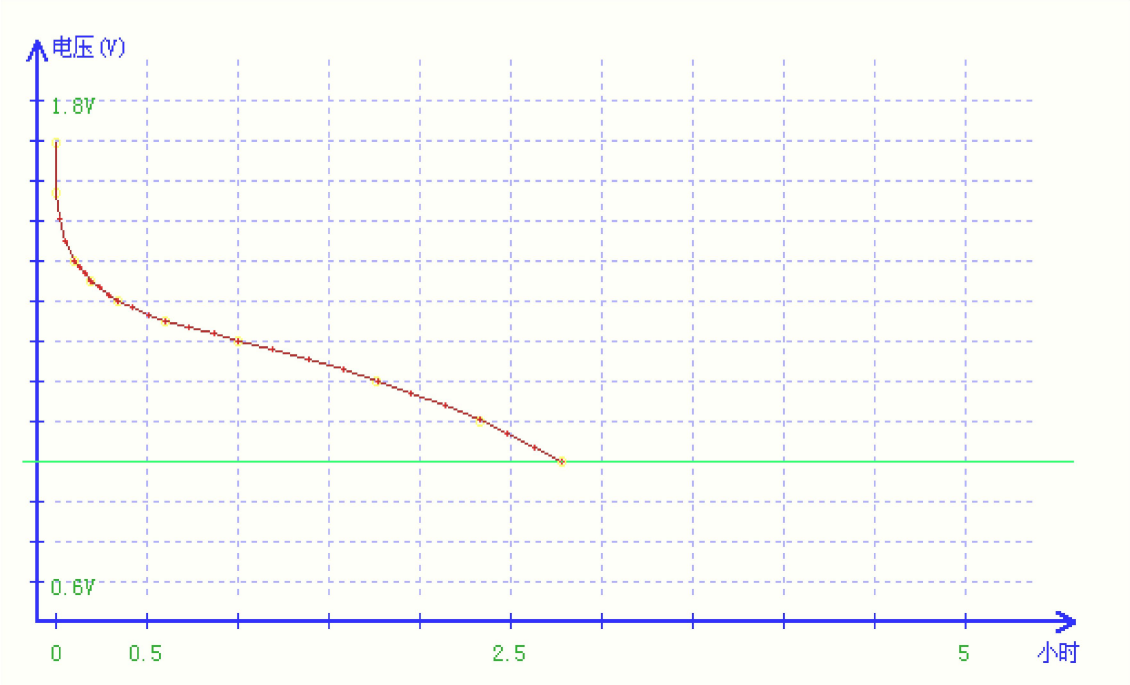
7.电池存放期/Store period of battery

于常温及合适环境可储存 2 年/the battery is ok within 2years under room temp and suit environment.

8.放电曲线/Discharge diagram 测试温度/test temp: 20℃±2℃

(1) 放电曲线图表:

a) Discharge Method : 10Ω 1h/d (Fig. 1)



b) Discharge Method : 24Ω 15s/1m, 8h/day (Fig. 2)

