

POWER-XTRA

Model : Power-Xtra 1.2V Ni-Mh SC 4000 Mah PVC Rechargeable Battery Ver:A0 NO: 900.600.503.090

Ni-MH Battery Spec

Model: PX-4000-1.2V

Nominal Voltage: 1.2V

Capacity: 4000mAh

Draft 起草	Checking 审核	Approved 批准	Customer Confirmation 客户确认
Peter	Chun Qi Zeng		

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Revision History 版本记录

Revision 版本	Date 日期	Editor 编著	Contents 内容
A0		Peter	Draft

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1. Model

PX-HSC4000-1.2V

2. Appearance

There shall be no such defects as deformation, flaw, stain, discoloration or electrolyte leakage.

3. Nominal specification

Description 项目		Specification 规格	
Single 单电芯 (Units 单位: mm)	Diameter 直径 (φ)	22.15±0.35	
	Height 高度 (H)	42.25±0.5	
	Weight/重量(g)	Approx. 80g	
Nominal Voltage 标称电压(V)		1.2	
Nominal capacity 标称容量(mAh)		4000	
Internal Impedance 内阻 (充满电后测量) (mΩ)		≤30	
Discharge Cut-off Voltage 放电截止电压(V)		1.0	
Ambient temperature 环境温度	Charge 充电	Standard/标准	0°C to 40°C
		Fast/快充	10°C to 40°C
	Discharge		-10°C to 50°C
	Storage 贮存	<1 year/年	-10°C to 30°C
		<3 months/月	-10°C to 40°C
The relative humidity should keep with in 相对湿度必须保持在			65±20%

4. Characteristics 性能

Unless otherwise specified, test: should be done within one month of delivery under the following conditions:

Ambient temperature 20±5°C

Relative humidity 65±20%

Atmospheric pressure 960±100mbar

Test item 测试项目		Condition 制度	Specification 指标
1. Charge 充电	Standard 标准	Charge at 0.1C for 16 hours 0.1C 充 16 小时	0°C to 40°C
	Fast 快速	Charge at 0.2C for 5.25 hours 0.2C 充 5.25 小时	10°C to 40°C
2. Discharge 标准放电		At 0.2C to 1.0V 0.2C 放电至 1.0V	≥100%
3. Capacity 容量 (mAh)	Typical 典型	Standard charge/discharge 标准充放电	>4000

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	Minimum 最低	Standard charge/discharge 标准充放电	4000
4. Internal resistance 内阻		After fully charge, rest 1 hour, measured at 1000H	≤30mΩ
5. Self-Discharge 自放电		The charged battery is stored for 28 days at 20°C±5°C. And the discharge time is measured at standard discharge/	≥180minutes (≥180 分钟)
6. Discharge 放电		Standard charge 1hour rest Before Discharge by 0.2C to 1.0V/	≥300minutes
		Standard charge 1hour rest Before Discharge by 1C to 0.8V/	≥54minutes
7. Overcharge 过充		0.1C charger 28 days,	No leakage
8. Charge Retention 荷电保持能力		Standard charge storage:12moths Standard	Capacity retention ≥60% after 500cycle

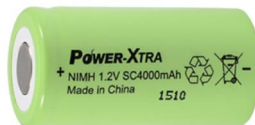
9. Leakage Test 泄漏测试		Standard charge stand for 14days	No leakage 无漏液	
10. High temperature test 高温测试		Store at 40°C、50°C、60°C for 2 hours then charge/discharge 在 40°C、50°C、60°C的环境下贮存 2 小时后充放电	No leakage 无漏液	
11. Low temperature test 低温测试		Store at 0°C for 2 hours then charge/discharge 在 0°C 的环境温度下贮存 2 小时后充电, 放电	No leakage 无漏液	
12. Short circuit test 短路测试		Short circuit after fully charge 充满后进行短路测试	No explode 无漏液	
13. Drop test 跌落测试		Free fall on the concrete from 1 meters after fully charged 充满电后于 1 米高处自由跌落 3 次	No leakage No short-circuit 电池不泄漏/不短路	
Cycle life	Charge	Rest	Discharge	Cycles 1 to 50 shall be repeated until the discharge duration on any 50thcycle becomes Less than 3h
1	0.1C for 16h	0	0.25C for 2h20min	
2-48	0.25C for 3h10min	0	0.25C for 2h20min	
49	0.25C for 3h10min	0	0.2C to 1.0V	
50	0.1C for 16h	1-4h	0.2C to 1.0V	

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5. Drawing of Label 标签图

印字方式：移印。喷码日期随生产日期更改，YY 为年，MM 为月，如 1507（2015 年 07 月）。GS1(EAN.UCC)/ENA-13 Bar code 条形码，扫码内容为“商品 8680187001094 来自 土耳其”。喷码格式如下：



6. Drawing Packing 包装图

卡纸单独隔开再装内盒，每箱不超 10KG，内置防潮袋；客户定制纸箱，贴箱唛；客户 LOGO 如下：



ENA-13 Bar code 条形码/侧唛：

贴于纸箱正/背两侧，侧唛尺寸 130*100mm（侧唛尺寸视情况而定）：

P

PO NO.	Order
MODEL NO.	900.600.503.090
QTY	500PCS
DATE	YYYY-MM-DD
Made in China	
 8 680187 001094	

← 根据每次订单更改
← 根据每箱数量更改
← 根据出货日期更改

7. Cautions in use 使用须知

To ensure proper use of the battery please read the manual carefully before using it. 为保证正确使用电池，请在使用前详细阅读以下使用指南。

1. Handling 操作

Do not expose to, dispose of the battery in fire. 请勿将电池投入火中。

Do not put the battery in a charger or equipment with wrong terminals connected. 请勿将电池反极放入充电器或设备中。

Avoid shorting the battery. 避免将电池短路。

Avoid excessive physical shock or vibration. 避免剧烈的振动与冲击。

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Do not disassemble or deform the battery. 请勿解剖或破坏电池。

Do not immerse in water. 请勿将电池投入水中。

Do not use the battery mixed with other different make, type, or model batteries. 请勿将不同生产商、不同规格、不同型号的电池混合使用。

Keep out of the reach of children. 请将电池远离儿童。

2. Storage 贮存

Cycle(charge and discharge)the battery every 6-9month to maintain cell/battery performance ,When being stored for an extended period of time. 若要持续贮存，为了维护电池性能，在半年内要对电池进行充放电一次，以防其失去功效

Store the battery in a cool, dry and well-ventilated area. 请将电池存放在低温、干燥、通风处

3. Disposal 处置

Regulations vary for different countries. 电池处理法规因国家不同而不同。

Dispose of in accordance with local regulations. 电池因按当地的法规进行处理。

8. Note 备注

Any other items which are not covered in this specification shall be agreed by both parties. 此规格书上未涉及的项目，双方可共同协商达成一致 p。