



Model : Power-Xtra Ni-MH PX-H2-3A1300-1.2V Rechargeable Battery Ver: A1 NO: 900.600.503.204

Ni-MH Battery Spec

镍氢电池规格书

Model :
型 号: PX-H2/3A1300-1.2V

Customer Code:
客户代码: C10025

Customer P/N:
客户型号 : 900.600.503.204

Nominal Voltage:
标称电压: 1.2V

Capacity:
容量: 1300mAh

Draft 起草	Checking 审核	Approved 批准	Customer Confirmation 客户确认
Cathy	Jeff		



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Revision History 版本记录

Revision 版本	Date 日期	Editor 编著	Contents 内容
A0	2020-12-03	Cathy	Draft
A1	2021-08-25	Helen	更改日期码格式

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1. Preface 适用范围

This specification is suitable for the performance of the CTECHI Ni-MH rechargeable battery.
此规格书用于深圳市驰普电子科技有限公司的镍氢可充电电池。

2. Model 型号

PX-H2/3A1300-1.2V

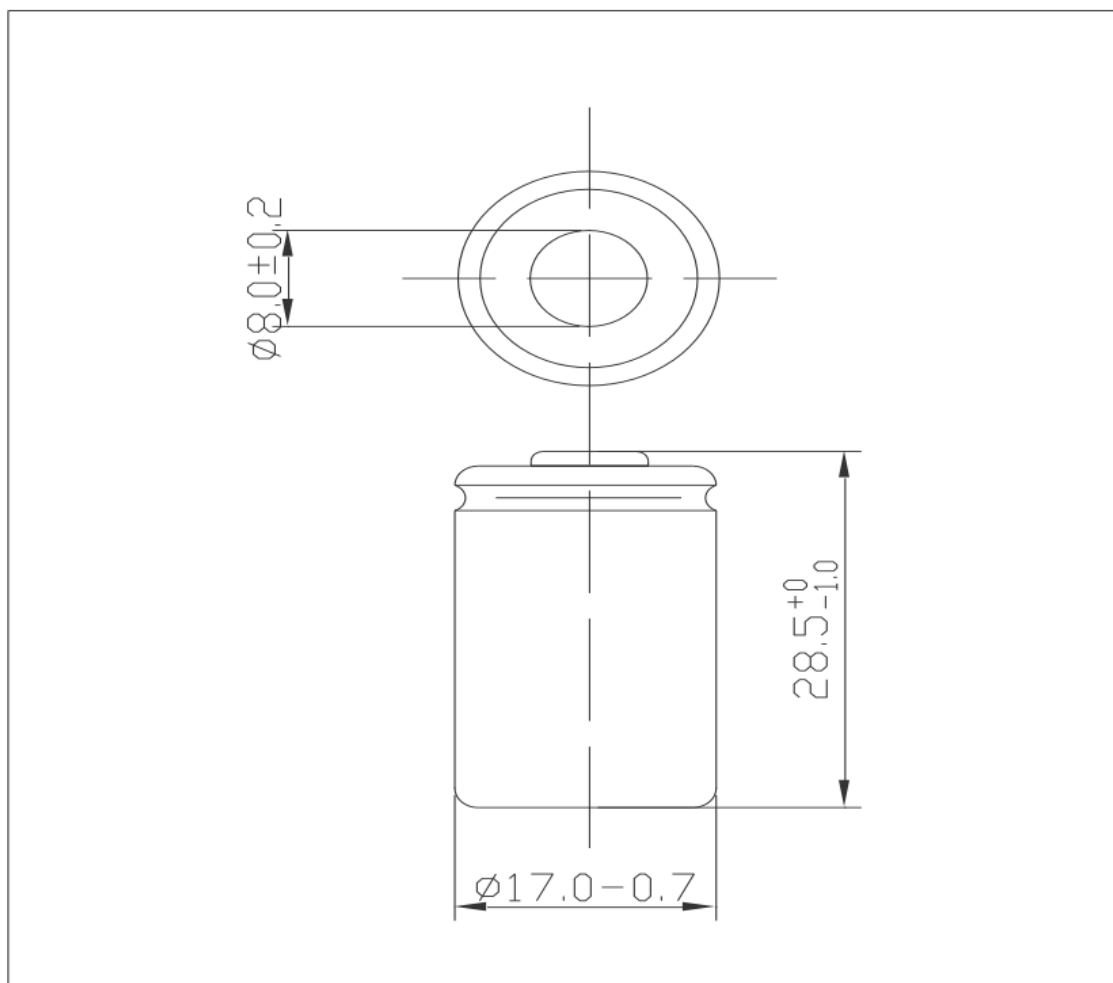
3. Appearance 表现特征

There shall be no such defects as deformation, flaw, stain, discoloration or electrolyte leakage.
电池表面清洁，无漏液，无零电压。

4. Nominal specification 规格

Description 项目		Specification 规格
Single 单电芯 (Units 单位: mm)	Diameter 直径 (ϕ)	17.0 $\pm$ 0.7
	Height 高度 (H)	28.5 $\pm$ 0.75
	Weight/重量(g)	Approx.21.5g
Nominal Voltage 标称电压(V)		1.2
Nominal capacity 标称容量(mAh)		1300
标准充电 Standard Charge		130mA(0.1C) $\times$ 16hrs
快速充电 Rapid Charge		260mA(0.2C) $\times$ 6.0hrs
Internal Impedance 内阻 (充满电后测量) (m Ω)		$\leq$ 70
Discharge Cut-off Voltage 放电截止电压(V)		2.0
Ambient temperature 环境温度	Charge 充电	Standard/标准 0 $^{\circ}$ C to 40 $^{\circ}$ C
		Fast/快充 10 $^{\circ}$ C to 40 $^{\circ}$ C
	Discharge 放电 -10 $^{\circ}$ C to 50 $^{\circ}$ C	
	Storage 贮存	<1 year/年 -20 $^{\circ}$ C to 25 $^{\circ}$ C
		<3 months/月 -20 $^{\circ}$ C to 30 $^{\circ}$ C
		The relative humidity should keep with in 相对湿度必须保持在 65 $\pm$ 20%

单颗电池尺寸包括 PVC (Dimensions with tube)



5. Characteristics 性能

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

除非特别说明，测试需在发货后一个月内在下述条件下进行：

Ambient temperature 环境温度 $20 \pm 5^{\circ}\text{C}$

Relative humidity 相对湿度 $65 \pm 20\%$

Atmospheric pressure 大气压力 $960 \pm 100\text{mbar}$

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

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	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	>1300
	Minimum 最低	Standard charge/discharge 标准充放电	1300
4. Internal resistance 内阻		After fully charge, rest 1 hour, measured at 1000Hz 充满电静置 1 小时测试	≤70mΩ
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/充满电后电池于 20±5°C 贮存 28 天后, 用标准放电制度测试	≥180minutes (≥180 分钟)
6. Discharge 放电		Standard charge 1hour rest Before Discharge by 0.2C to 1.0V/标准充电后搁置一小时, 0.2C 放电至 1.0V	≥300minutes (≥300 分钟)
		Standard charge 1hour rest Before Discharge by 1C to 0.8V/标准充电后搁置一小时, 1C 放电至 0.8V	≥58minutes (≥58 分钟)
7. Overcharge 过充		0.1C charger 28 days, /0.1C 充电 28 天	No leakage 无漏液
8. Charge Retention 荷电保持能力		Standard charge storage: 12 months Standard Discharge 标准充电后存放 12 个月, 标准制度放电	Capacity retention ≥60% after 500 cycle 500 次循环后容量 ≥60%

9. Leakage Test 泄漏测试	Standard charge stand for 14 days 标准充电后存放 14 天检查	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

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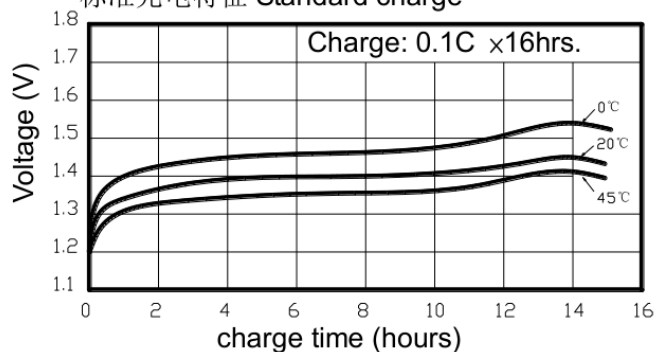
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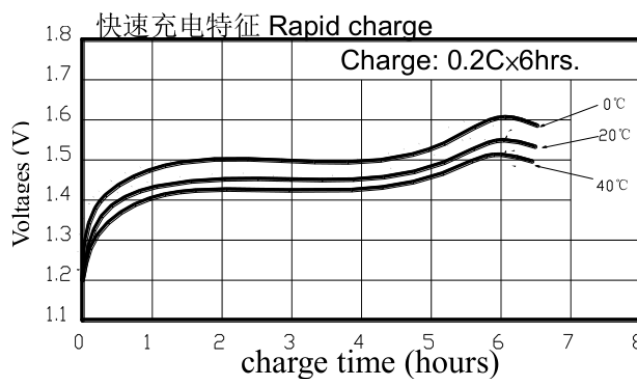
12. Short circuit test 短路测试		Short circuit after fully charge 充满后进行短路测试		No explode 无漏液
13. Drop test 跌落测试		Free fall on the concrete from 1 meters after fully charged 充满电后于 1 米高处自由跌落 3 次		No leakage No short-circuit 电池 不泄漏/不短路
Cycle life 循环寿命	Charge 充电	Rest 搁置	Discharge 放电	Cycles 1 to 50 shall be repeated until the discharge duration on any 50th cycle becomes Less than 3h 循环至任意第 50 次放电时间不足 3 小时为止
1	0.1C for 16h 0.1C 充 16 小时	0	0.25C for 2h20min 0.25C 放 2 小时 20 分	
2~48	0.25C for 3h10min 0.25C 充 3 小时 10 分	0	0.25C for 2h20min 0.25C 放 2 小时 20 分	
49	0.25C for 3h10min 0.25C 充 3 小时 10 分	0	0.2C to 1.0V 0.2C 放至 1.0V	
50	0.1C for 16h 0.1C 充 16 小时	1~4h	0.2C to 1.0V 0.2C 放至 1.0V	

典型特征 Typical characteristics

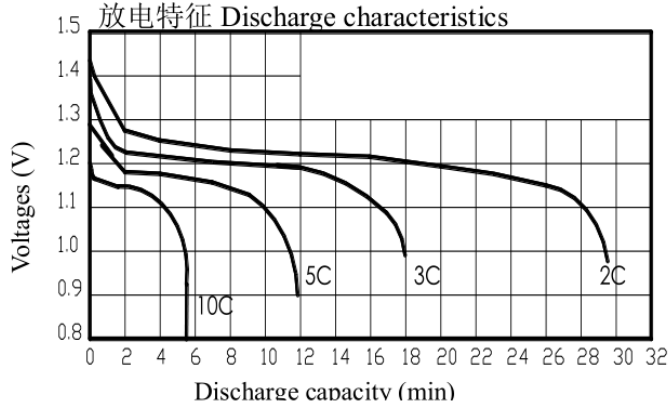
标准充电特征 Standard charge



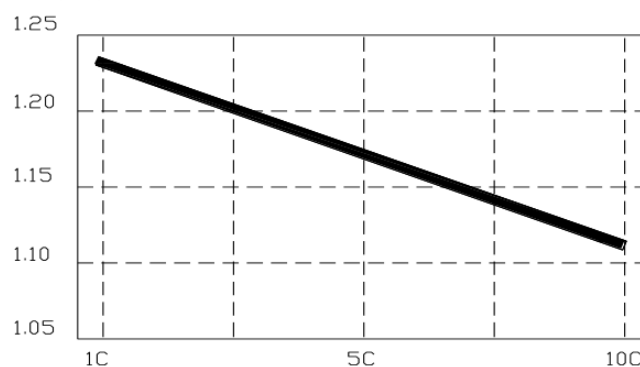
快速充电特征 Rapid charge



放电特征 Discharge characteristics



MPV (V)



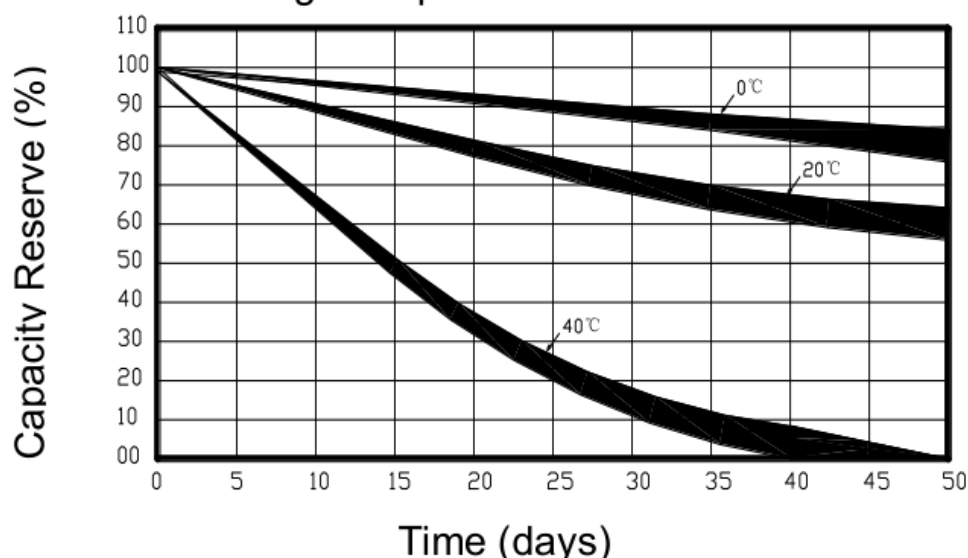
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Ni-MH 圆柱型电池在不同的温度荷电保持曲线图
Charge retention curves of Ni-MH cylindrical cell At various storage temperature



6. Drawing of Label 标签图

绿色 PVC 上丝印，日期码格式改为 YXXDXXX，日期随生产日期更改，年在前，日在后。例如：Y21D117，Y21 指 2021 年，D117 指第 117 天。Y21D117 就是指 2021 年的第 117 天。

日期和天数的对应，请参考以下网址：<https://www.calendar-365.com/day-numbers/2021.html> 印字内容格式如下：



7. Sample Picture 样品照

T.B.D.

8. Drawing Packing 包装图

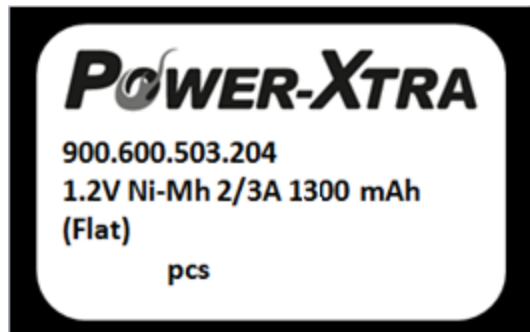
卡纸单独隔开装内盒，内盒侧面贴标签，标签标示数量按实际装盒数量填写；标签内容格式及位置如下：

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标签位置示意图，
统一贴于纸盒左侧面

内置防潮袋，每箱不超 20KG，贴侧唛；定制 Logo 纸箱，外箱 Logo 内容格式如下：

POWER-XTRA

侧唛：

条形码格式为：GS1(EAN.UCC)/ENA-13 Bar code，侧唛分别贴于纸箱两侧（尺寸视纸箱尺寸更改），内容及格式如下：

PO NO.	ORDER020-12
MODEL NO.	900.600.503.204
QTY	PCS
DATE	YYYY-MM-DD
Made in China	
 8 680187 001834	

← 根据每次订单更改

← 根据每箱数量更改
根据出货日期更改

9. 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。

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

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。

10. 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。