

POWER-XTRA

Model : Power-Xtra 2.4V Ni-Mh AA 1300 Mah Rechargeable Battery Pack with Conn. Ver: A0 NO:900.601.503.074

Ni-MH Battery Spec 镍氢电池规格书

Model :
型号: PX-1300-2.4V-A

Customer Code:
客户代码: C10025

Customer P/N:
客户型号: 900.601.503.074

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 |
|-------------|----------------|----------------|-------------------------------|
| 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 |
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| A0 | 2017-07-28 | Peter | Draft |
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目录

| | |
|----------------------------------|---|
| 1. Preface 适用范围 | 4 |
| 2. Model 型号 | 4 |
| 3. Appearance 表现特征 | 4 |
| 4. Nominal specification 规格..... | 4 |
| 5. Characteristics 性能..... | 5 |
| 6. Drawing of Label 标签图 | 6 |
| 7. Sample Picture 样品照..... | 6 |
| 8. Dimensions 外形尺寸 | 6 |
| 9. Drawing Packing 包装图 | 7 |
| 10. Cautions in use 使用须知 | 7 |
| 11. Note 备注..... | 8 |

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1. Preface 适用范围

This specification is suitable for the performance of the Power-Xtra 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

CT-HAA1300-2.4V-A

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) | 14.15±0.35 | |
| | Height 高度 (H) | 48.25±0.75 | |
| Pack Dimensions 尺寸 (Units 单位: mm) | Length 长 (L) | 50.0±0.5 | |
| | Width 宽 (W) | 15.0±0.5 | |
| | Height 高 (H) | 29.0±1.0 | |
| | Cable 外露线长 | 30±5mm*UL1007#26AWG | |
| | Plug 插头 | Molex 51004-3P(反向) | |
| | Weight/重量 (g) | Approx. 55g | |
| Nominal Voltage 标称电压 (V) | | 2.4 | |
| Nominal capacity 标称容量 (mAh) | | 1300 | |
| Internal Impedance 内阻 (充满电后测量) (mΩ) | | ≤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°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 | |

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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 |
| | 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 | $\geq 100\%$ |
| 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 | $\leq 70\text{m}\Omega$ |
| 5. Self-Discharge 自放电 | | The charged battery is stored for 28 days at $20^{\circ}\text{C}\pm 5^{\circ}\text{C}$. And the discharge time is measured at standard discharge/ 充满电后电池于 $20\pm 5^{\circ}\text{C}$ 贮存 28 天后，用标准放电制度测试 | $\geq 180\text{minutes}$ (≥ 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 | $\geq 300\text{minutes}$ (≥ 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 | $\geq 58\text{minutes}$ (≥ 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 $\geq 60\%$ after 500 cycle 500 次循环后容量 $\geq 60\%$ |

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| | | | | |
|--------------------------------|--|--|--|---|
| 9. Leakage Test 泄漏测试 | | Standard charge stand for 14days 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 |
| 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 50thcycle 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 | |

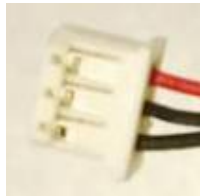
6. Drawing of Label 标签图

客供

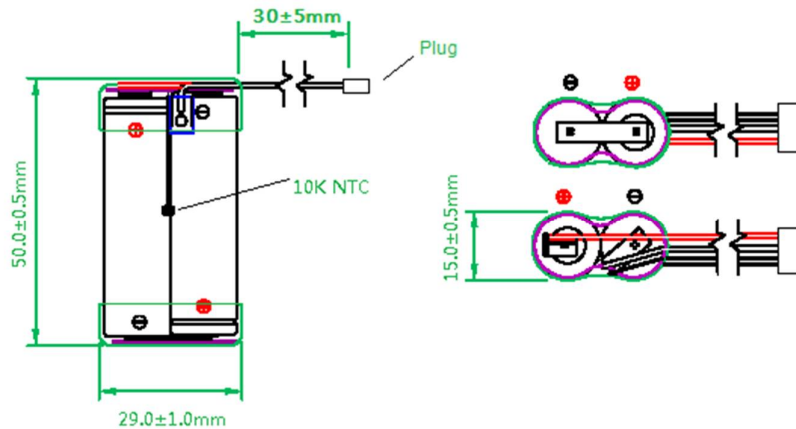
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7. Sample Picture 样品照



8. Dimensions 外形尺寸



| | | |
|---------------------------------|--------------------|---|
| Dimensions 尺寸 (Units 单位: mm) | Length 长 (L) | 50.0±0.5 |
| | Width 宽 (W) | 15.0±0.5 |
| | Height 高 (H) | 29.0±1.0 |
| | Cable 外露线长 | 30±5mm*UL1007#26AWG |
| | Plug 插头 | Molex 51004-3P(反向) |
| | NTC | 10K |
| | PVC 颜色 / PVC Color | Yellow/黄色 (Single cell 电芯), 蓝色 PVC 包裹两端 |

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9. Drawing Packing 包装图

PP 袋单独包装（无封口袋，插头线不能外露）；再装纸盒（可多个，三层瓦楞纸）；装纸箱（内置防潮袋），每箱不超 10KG。（包装图待定）

10. 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。

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。

11. Note 备注

Any other items which are not covered in this specification shall be agreed by both parties.