

# POWER-XTRA

Model : Power-Xtra 3.6V Ni-Cd AA Size 800 Mah Rechargeable Battery with Connector Ver: A2 NO:900.600.503.227

## Product Specification

Name : Ni-Cd Battery

Model: PX-KAA800-3.6V

Application: \_\_\_\_\_

Author: Zhenfeng Huang

Review: Peter

Approval: Sam

Item	Signature	Date
Customer Signature		

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## Revision History

Revision	Date	Editor	Content
A0			Draft
A1	2017-07-03	Peter	增加标签图
A2	2018-01-10	Peter	增加包装内容

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## 1、 APPLICATION

Model : Ni-Cd AA800mAh 3.6V

Cell Size : AA ( $\phi 14.0^{\pm 0.5} \times 49.0^{-1.5}$ )

## 2、 DATA OF STACK UP BATTERIES

All data involves voltage and weight to stack-up battery are equal to the value of unit cell times the number of unit cell which consisted in the stack-up batteries

Example:

Stack-up battery consisting three unit cells

Nominal voltage of unit cell=1.2V

Nominal voltage of stack-up batteries=1.2V×3=3.6V

## 3、 RATINGS

Description	Unit	Specification	Conditions
Nominal Voltage	V	3.6	Unit cell
Nominal Capacity	mAh	800	Standard Charge/Discharge
Standard Charge	mA	80(0.1C)	Ambient Temperature: Ta= 20±5°C
	Hour	16	
Trickle Charge		(0.03C)~(0.05C)	Ta = 0~45°C
Standard discharge	mA	160(0.2C)	Ambient Temperature: Ta = 20±5°C Humidity: Max : 85%
DischargeCut-off Voltage	V	3.0	
Operating temperature range	°C	0~45°C	Humidity: Max : 85%
Storage Temperature	°C	-20~35°C	一年 Fully charged state、 Humidity、 Max.60%
		0~60°C	一周 Fully charged state、 Humidity、 Max.80%
Typical Weight	g	Approx.19.5	

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## 4、 PERFORMANCE

Unless otherwise stated, tests should be done within one month of delivery under the following conditions: /

Ambient Temperature, T: 20±5°C

Relative Humidity: 65±20%

Test	Unit	Specification	Other Condition	Remarks
Capacity	mAh	800	Standard Charge Discharge	up to 3 cycles are allowed
Open Circuit Voltage(OCV)	V	≥3.75	Within 1 hour after standardCharge	
Internal Impedance	m Ω/ Cell	≤35	Upon fully charge(1KHz)	
High Rate Discharge(1.0C)	minute	≥48	Standard Charge, 1 hour rest Before Discharge by 1.0C to 3.0 V	up to 3 cycles are allowed
Overcharge		No leakage nor explosion	0.1C Charge 14 days	
Charge Retention	mAh	≥520(65%)	Standard Charge, Storage: 7 day rest at 45 Ambient Temperature, Standard Discharge	
IEC Cycle Life	Cycle	≥500	IEC61951-1(2003)7.4.1.1	(see Note ) / (参见 Note)
Leakage Test		No leakage nor deformation	Fully charged at 0.5C for 2.5 hour stand for 14 days.	
Security Test		No explosion, but leakage or deformation is allowed	Charge the cell 0.1C 16hrs, Then ≤100 mΩ Impedance short circuit for 1 hour	Ambient Temperature T=20±5°C
Impact Resistance		Change of voltage should be under 0.02V/ Cell Change of impedance should be under 5 mΩ/ Cell	Charge the cell 0.1C 16hrs Then leave for 1~4hrs, check battery before/after dropped, Height 50cm Wooden board (thickness 30mm) Direction not specified, 3 times.	Ambient Temperature: T=20±5°C

Vibration Resistance		Change of voltage should be under 0.02V/cell, Change of impedance should be under 5 milliohm/cell/	Charge the battery 0.1C 16hrs, then leave for 24hrs, check Battery before/after vibration, Amplitude 1.5mm Vibration 3000CPM, Any direction for 60mins.	Ambient Temperature: T=20±5°C
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## 5、 CONFIGURATION, DIMENSIONS AND PACKINGS

Please refer to the attached drawing

## 6、 EXTERNAL APPEARANCE

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage nor deformation.

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## 7、 CAUTION

- 1) Reverse charging is not acceptable./
- 2) Charge before use. The cells/batteries are delivered in an uncharged state.
- 3) Do not charge/discharge with more than our specified current.
- 4) Do not short circuit the cell/battery Permanent damage to the cell/battery may result.
- 5) Do not incinerate or mutilate the cell/battery.
- 6) Do not solder directly to the cell/battery.
- 7) The life expectancy may be reduced if the cell/battery is subjected adverse conditions like: extreme temperature, deep cycling, excessive overcharge/ over-discharge.
- 8) Store the cell/battery uncharged in a cool dry place. Always discharge batteries before bulk storage or shipment.

## Notes:

- 1)  $T_1$ : Ambient Temperature.
- 2) Approximate charge time from discharged state is for reference only.
- 3) We recommend cells or batteries are charged and discharged at least once every 6 months
- 4) IEC61951-1(2003)7.4.1.1 Cycle Life:/

Cycle No.	Charge/	Rest	Discharge
1	0.1C×16h	None	0.25C×2h20min
2-48	0.25C×3h10min	None	0.25C×2h20min
49	0.25C×3h10min	None	0.25C to 1.0V/ cell
50	0.1C×16h	1-4h	0.2C to 1.0V/ cell
Cycles 1 to 50 shall be repeated until the discharge duration on any 50th Cycle becomes less than 3 h			

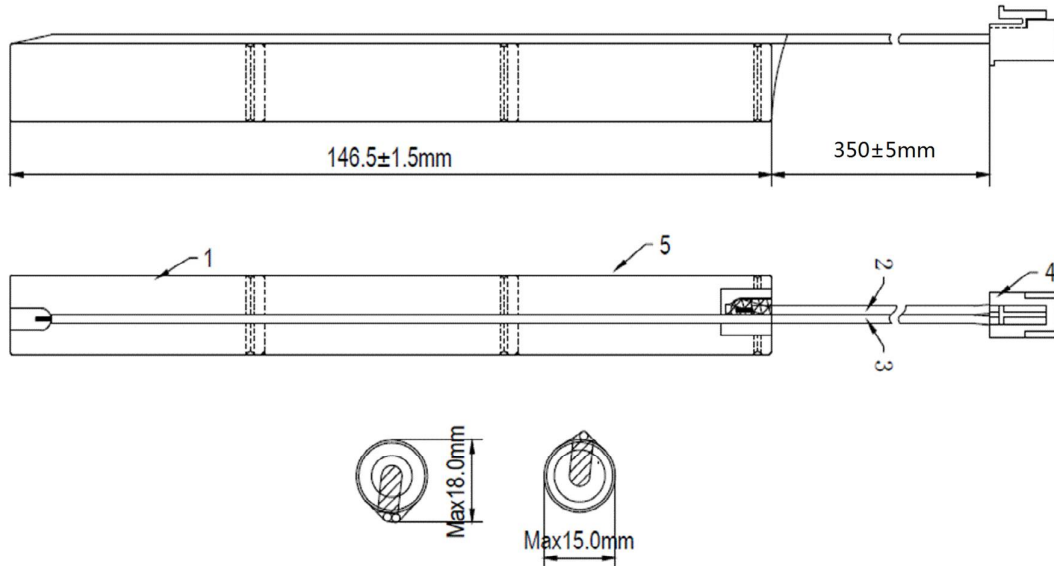
## 8、 Other/

- 1) The information (subject to change without prior notice) contained in this document is for reference only and should not be used as a basis for product guarantee or warranty.
- 2) Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.

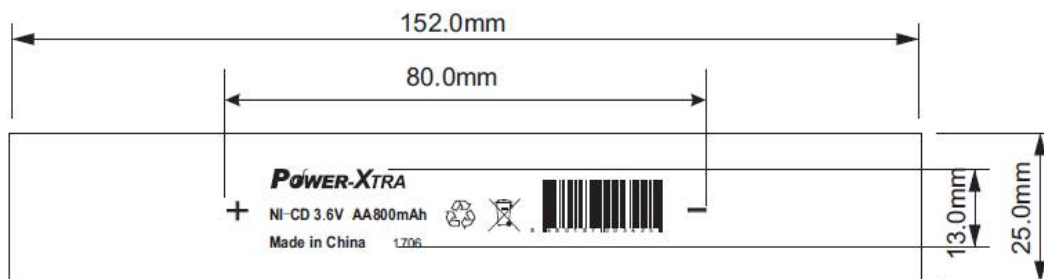
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Attached Drawing / 附图



白色 PVC, GS1(EAN.UCC)/ENA-13 Bar code 条形码, 内容为“8680187003425”。日期按出货月份更改。年份在前, 月份在后 (年月), 如: 1706 (2017 年 06 月)。丝印内容如下:



NO	NAME	SIZE	QTY	NOTE		
1	CELLS	AA800MAH	3	Ni-CD		
2	WIRE RED	UL1007 22#	1		MODEL	
3	WIRE BLACK	UL1007 22#	1		DESIGN BY	
4	PLUG	JST-VHR-2P	1	opposite direction	CHECKER	
5	PVC(OUT)		1	WHITE	VERSION	

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## Drawing Packing



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.	Order <b>16-8</b>	← 根据每次订单更改
MODEL NO.	900.600.503.227	
QTY	<b>500PCS</b>	← 根据每箱数量更改
DATE	<b>YYYY-MM-DD</b>	← 根据出货日期更改
Made in China		
 8 680187 003425		