

Ver: A8

NO:900.600.503.013

Product Specification

Name:	Ni-Cd Battery
Model:	Ni-Cd AA600mAh 1.2V
Application:	
Author:	Zhenfeng Huang
Review:	Peter
Approval:	Sam
Date:	2017/08/01

ltem	Signature	Date
Customer Signature		



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Revision History

Revision	Date	Editor	Contents
A0	2017-08-01	Peter	Draft
A3	2017-10-30	Penny	修改包装条形码
A4	2017-11-20	Abby	增加面垫-白色
A5	2017-11-30	Penny	修改抬头
A6	2018-01-10	Peter	增加包装防潮袋
A7	2018-01-23	Peter	更改内包装及增加标签描述
A8	2018-03-02	Dora	增加内盒标签

Reference Picture





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1、APPLICATION

Model : Ni-CdAA600mAh1.2V Cell Size: AA (φ14.5^{-1.0}×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	1.2		Unit cell
Nominal Capacity	mAh	600		Standard Charge/Discharge
	mA	60(0.1C)		Ambient Temperature:
Standard Charge	Hour	16		Ta= 20±5°C
Trickle Charge		(0.03C)~(0.05C)		Ta = 0~45°C
		120(0.2C)		Ambient Temperature:
Standard discharge	mA			Ta = 20±5°C
				Humidity: Max : 85%
DischargeCut-off Voltage	V	1.0		
Operating temperature range	°C	0~45°C		Humidity: Max : 85%
	°C	-20~35°C	一年	Fully charged state、Humidity、Max.60%
Storage Temperature		0~60°C	一周	Fully charged state、Humidity、Max.80%
Typical Weight	g	Approx.17.0		

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%



Model: Power-Xtra 1.2V Ni-Cd AA 600 Mah Rechargable Battery (Flat Head) Ver: A8 NO:900.600.503.013

Test	Unit	Specification	Other Condition	Remarks
Capacity	mAh	600	Standard Charge Discharge	up to 3 cycles are allowed
Open Circuit Voltage(OCV)	V	≥1.25	Within I hour after standardCharge	
InternalImpedance	m Ω/ Cell	≤40	Upon fully charge(IKHz)/	
High Rate Discharge(1.0C)	minute	≥48	Standard Charge, I hour rest Before Discharge by 1.0C to 1.0 V	up to 3 cycles are allowed
Overcharge		Noleakagenor explosion	0.1CCharge14 days	
Charge Retention	mAh	≥390(65%)	Standard Charge, Storage: 7 day rest at 45Ambient Temperature, Standard Discharge	
IEC Cycle Life	Cycle	≥500	IEC61951-1(2003)7.4.1.1	(see Note)
Leakage Test		No leakage nor deformation	Fully charged at 0.5C for 2.5 hour stand for 14 days. 0.5C	
Security Test		No explosion, but leakag e or deformation is allo wed	Charge the cell 0.1C 16hrs, Then≤100 mΩImpedance short circuit for 1hour	Ambient Temperature/: T=20±5°C
Impact Resistance		Change of voltage should be under 0.02V/ Cell Change of impedance should be under 5 m Ω / 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 unde Resistance impe	nge of voltage should be er 0.02V/cell,Change of edance should be er5 milliohm Charge the battery 0.1 then leave for 24hrs,ch Battery before/after vib Amplitude 1.5mmVibratection for 60mins.	Ambient Temperature/:
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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.

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

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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) 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 I to 50 shall be repeated until the discharge duration on any 50th Cycle becomes less than 3 h $_{\circ}$

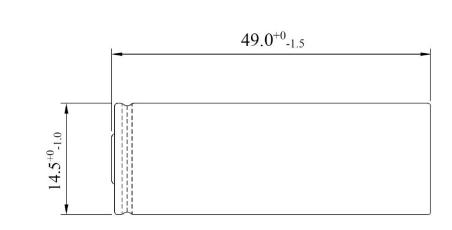
8. Other/

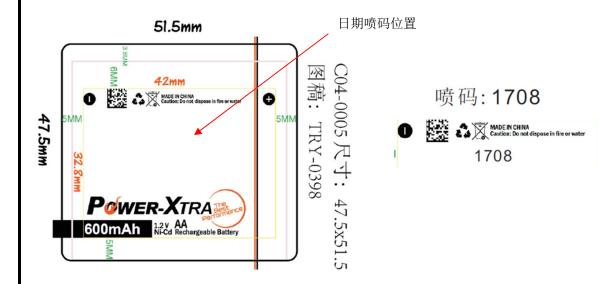
- 1) The information (subject to change without prior notice) contained in this document is for reference only and should not be used as a basis for product guarantee or warranty.
- 2) Manufacturer reserves the right to alter or amend the design, model and specification without prior notice.



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铝膜卷标, GS1(EAN.UCC)/EAN-13 Bar code条形码, 内容为"8680187000592"。日期按出货月份更改。年份在前,月份在后(年月),如: 1708(2017年08月)。

NO	NAME	SIZE	QTY	NOTE		
1	CELLS	AA600MAH	1	NICD		
2	PVC	47.5*51.5*0.07MM	1		MODEL	
3	SURFACRMAT	AA (φ13mm)	1	WHITE		
					DESIGN BY	
					CHECKER	
					VERSION	



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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更改;标签内容格式及位置如下:



900.600.503.013 1.2V Ni-Cd AA 600 mAh (Flat)

pcs



标签位置示意图, 统一贴于纸盒左侧面

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

Power-XTRA

侧唛:

条形码格式为: GS1(EAN.UCC)/ENA-13Bar 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 18-1		
MODEL NO.	900.600.503.013		
QTY	500PCS		
DATE	YYYY-MM-DD		
Made in China			

/___根据每次订单更改

<──根据每箱数量更改</p>