Ver: A0

NO:900.600.503.046

Product Specification

Name:	NI-Cd Battery		
Model:	Ni-Cd 60mAh 3.6V		
Stock Code:	900.600.503.046		
Author:	ZhengFeng Huang		
Review:	Peter		
Approval:	Sam		
日期/Date:	2017/08/01		

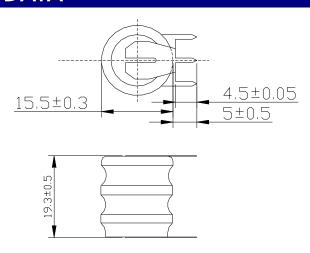
ltem	Signature 签名	Date 日期
Customer Signature 客户确认		



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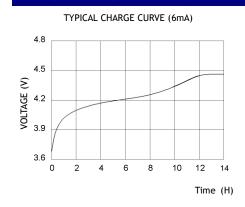
NO:900.600.503.046

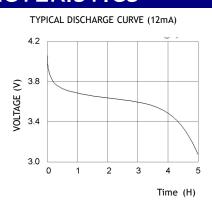
TECHNICAL DATA

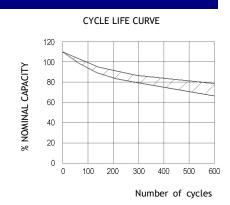


Model	Voltage	Capacity	Recommended Trickle Charge Current	Nominal Charge Current	Normal Charging Time	Nominal Discharge Current	Weight
60K3A3H	3.6V	60mAh	1.8~3mA	6mA	14~16h	12mA	10.0g

TECHNICAL CHARACTERISTICS







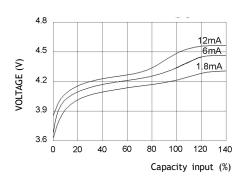
www.power-xtra.com



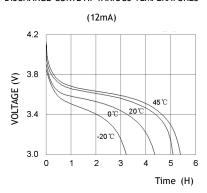
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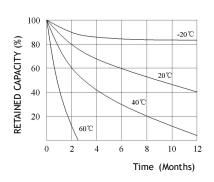
TYPICAL CHARGE CURVE AT VARIOUS CURRENTS



DISCHARGE CURVE AT VARIOUS TEMPERATURES



SELF DISCHARGE RATE AT VAROUS TEMPERATURES



TECHNICAL INFORMATION

APPLICATION

This specification applies to the Ni-Cd batteries

Model: 3.6V60K3A3H

2. CELL AND TYPE

2.1 Cell :Sealed Ni-Cd Button Cell

2.2 Type :Button type2.3 Size type : 3.6V

3. RATINGS

3.1 Nominal voltage : 3.6V

3.2 Nominal capacity: 60mAh/0.2CmA

3.3 Typical weight : 10.0g

3.4 Standard charge : 6mA×14hours3.5 Rapid charge : 12mA×6hours

Trickle current : 1.8mA

3.6 Discharge cut-off voltage: 3.0V

3.7 Temperature range for operation (Humidity: Max.85%)

Standard charge $0\text{-+}45^{\circ}\text{C}$ Rapid charge $+10\text{--}+45^{\circ}\text{C}$ Trickle charge $0\text{--}+45^{\circ}\text{C}$ Discharge $-10\text{--}+45^{\circ}\text{C}$





Model: Power-Xtra 3.6V Ni-Cd 60 Mah 3 Pins Rechargeable Battery Ver: A0 NO:900.600.503.046

3.8 Temperature range for storage (Humidity: Max.85%)

Within 2 years $-20\text{-+}35^{\circ}\text{C}$ Within 6 months $-20\text{-+}45^{\circ}\text{C}$ Within a month $-20\text{-+}45^{\circ}\text{C}$ Within a week $-20\text{-+}55^{\circ}\text{C}$

4. ASSEMBLY & DIMENSIONS

Per attached drawing

5. PERFORMANCE

5.1 TEST CONDITIONS

The test is carried out with new batteries (within a month after delivery)

ambient conditions

Temperature: $+25\pm5^{\circ}$ C Humidity: $60\pm20\%$

Note 1

Standard charge : 6mA×14hours Standard discharge : 0.2C to 3.0V

5.2 TEST METHOD & PERFORMANCE

Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	≥60	Standard	Up to 3 cycies
			Charge/discharge	Are allowed
Open Circuit	Voltage	≥3.8	After 1 hour standard	
Voltage(OCV)	(V)		Charge	
Internal	mΩ/cell	≤1450	Upon fully charge	
Impedance			(1KHz)	
High rate	Minute	≥60	Standard charge	
Discharge(0.5C)			Before discharge	
Discharge	mA	30	Maximum continuous	
Current			Discharge current	
Over charge		No leakage	1.8mA(0.03C) charge	
		Not explosion	one year	
Charge	mAh	48	Standard charge;	
Retention			Storage: 28 days;	
			Standard discharge	
Cycle Life	Cycle	≥500	IEC285(1993)4.4.1	
Leakage		No leakage nor	Fully charge at 6mA,	
		Deformation	Stand 14 days	



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Note 2 IEC285(1993)4.4.1 cycle life

Cycle number	Charge	Rest	Discharge
1-50	6mA for 14h		12mA for 5h

50 cycles of test as in the following table condition is repeated, The discharge time of the 100^{th} , 200^{th} , 400^{th} , 500^{th} is more than 5 hours. (Ambient temperature is $20\pm5^{\circ}$ C)

5.3 Humidity

The battery shall not leak during the 14 days which it is submitted to the condition of a temperature of $33\pm3^{\circ}$ C and a relative humidity of $80\pm5\%$

- 6. OTHERS
- 6.1 We recommend you to set the cut-off voltage at 1.0V/cell
- 6.2 If the cut-off voltage is above 1.1V/cell, the battery may be underutilized resulting insufficient use of the available capacity
- 6.3 If it is below 1.0V/cell, the battery may have discharge or reverse charge to the cell
- 7. PRECAUTION

The cells shall be delivered in charged condition. Before testing or using, the cell shall be discharged at $20\pm5^{\circ}$ C at a constant current of 0.2CmA to a final voltage of 1.0V/cell.

- 7.1 Avoid throwing cells into a fire or attempting to disassemble them.
- 7.2 Avoid short circuiting the cells.
- 7.3 Avoid direct solidarity to cells.
- 7.4 Observe correct polarity when connecting.
- 7.5 Do not charge with more than our specified current.
- 7.6 Use cells only within the specified working temperature range.
- 7.7 Store cells in dry and cool place.

Drawing Packing 包装图

泡沫托盘装,每箱不超 10KG,贴侧唛;客户定制 Logo 外箱;外箱 Logo 内容格式如下:



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: