

APPROVAL SHEET

To: _____

Model: PH-AAA800H (↓)

Prepared by: _____

Checked by: _____

Approved by: _____

1. Preface

This specification is suitable for the performance of the Ni-MH rechargeable battery.

2. Model

PH-AAA800H

3. Appearance

There shall be no such defects as deformation,flaw,stain,discoloration or electrolyte leakage.

4. Nominal specification

Desription	Specification
Model	PH-AAA800H

Size		AAA	
Dimensions	Diameter(mm)	10.0±0.2	
	Height(mm)	44.2±0.3	
	Weight(g)	Approx.13g	
Nominal Voltage(V)		1.2	
Nominal capacity(mAh)		800	
Internal Impedance(mΩ)		≤45	
Discharge Cut-off Voltage		1.0V	
Ambient temperature	Charge	standard	0□ to 40□
		fast	10□ to 40□
	Discharge		-10□ to 50□
	Storage	□1 year	-10□ to 30□
		□3 months	-10□ to 40□
		The relative humidity should keep with in 65±20%	

5.Characteristics

Unless otherwise specified, the standard range of atmospheric conditions for test as follows:

Ambient temperature 20±5□

Relative humidity 65±20%

Atmospheric pressure 960±100mbar

Accuracy of voltmeters and amperometers to be used in testing shall be equal to or better than the grade 0.5.

Test item		Condition	Specification
1. Charge	Standard	Charge at 0.1C for 16 hours	
	Fast	Charge at 0.5C to -□V=5-10mV	
2. Discharge		At 0.2C to 1.0V	
3. Discharge cut-off voltage			1.0V
4.Capacity (mAh)	Minimum	Standard charge/discharge	750mAh
	Typical	Standard charge/discharge	800mAh
5. Internal resistance		After fully charge,rest 1 hour, measured at 1000Hz	≤45mΩ

6. Self-Discharge		The charged battery is stored for 12 months at 20°C±5°C. And the discharge time is measured at standard discharge		Capacity retention≥75%
7. High temperature test		Store at 40°C/50°C/60°C for 2 hours then charge/discharge		No leakage
8. Low temperature test		Store at 0°C for 2 hours then charge/discharge		No leakage
9. Short circuit test		Short circuit after fully charge		No explode
10. Drop test		Free fall on the concrete floor from 1 meter after fully charged		No leakage No short-circuit
11.Cycle life	Charge	Rest	Discharge	Capacity retention ≥60% after 500cycles
1	0.1C for 16h	0	0.25C for 2h20min	
2~48	0.25C for 3h10min	0	0.25C for 2h20min	
49	0.25C for 3h10min	0	0.2C to 1.0V	
50	0.1C for 16h	1~4h	0.2C to 1.0V	

Ni-MH rechargeable cylindrical cell(Data Sheet)

Data Sheet

Nominal Voltage		1.2V	
Dimensions	Diameter	10.0±0.2mm	
	Height	44.2±0.3mm	
	Apx. Weight	13g	
0.2C Discharge Capacity	Typical	800mAh	
	Minimum	750mAh	
Typical Internal Impedance		Less than 45mΩ	
Charge	Standard	80mA for 16hrs	
	Fast	400mA for about 144min	
Life expectancy		500 cycles	
Operating Temperature	Charge	Standard	0°C to 40°C
		Fast	10°C to 40°C
	Discharge		-10°C to 50°C
	Storage	< 1 year	-10°C to 30°C
< 3 months		-10°C to 40°C	

