

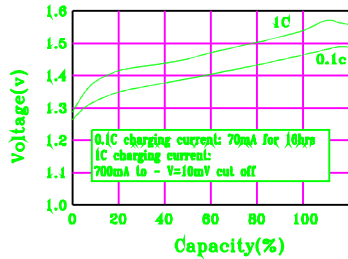
# PH-AAA700H

## Ni-MH rechargeable cylindrical cell (Data Sheet)

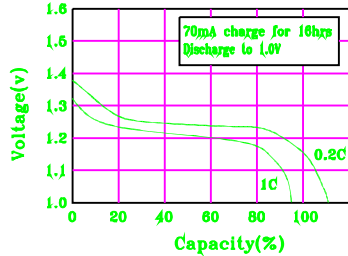
### Specification

Nominal Voltage		1.2V	
Dimensions	Diameter	10.0±0.2mm	
	Height	44.4±0.3mm	
	Apx. Weight	12g	
0.2C Discharge Capacity	Typical	750mAh	
	Minimum	700mAh	
Typical Internal Impedance		Less than 30m	
Charge	Standard	70mA for 16hrs	
	Fast	700mA for about 75min	
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	

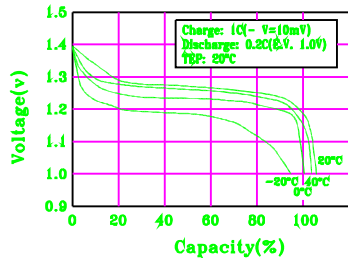
### CHARGE CHARACTERISTICS



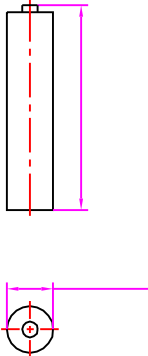
### DISCHARGE CHARACTERISTICS



### DISCHARGE CHARACTERISTICS AT DIFFERENT TEMPERATURE



### (CELL DIMENSIONS)



(With tube)

1:1

**1. Preface**

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

**2. Model**

PH-AAA700H

**3. Appearance**

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

**4. Nominal specification**

Description		Specification	
Model		PH-AAA700H	
Size		AAA	
Dimensions	Diameter(mm)	10.0±0.2	
	Height(mm)	44.4±0.3	
	Weight(g)	Approx.12g	
Nominal Voltage(V)		1.2	
Nominal capacity(mAh)		700	
Internal Impedance(mΩ)		≤30	
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 1C to - V=5-10mV		
2. Discharge		At 0.2C to 1.0V		
3. Discharge cut-off voltage				1.0V
4.Capacity (mAh)	Minimun	Standard charge/discharge		700mAh
	Typical	Standard charge/discharge		750mAh
5. Internal resistance		After fully charge,rest 1 hour, measured at 1000Hz		≤30mΩ
6. Self-Discharge		The charged battery is stored for 28 days at 20 ±5 . And the discharge time is measured at standard discharge		≥180minutes
7. High temperature test		Store at 40 50 60 for 2 hours then charge/discharge		No leakage
8. Low temperature test		Store at 0 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	