

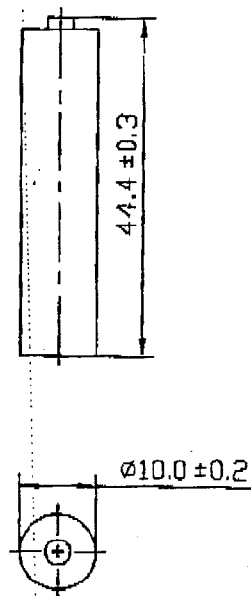
PH-AAA700H

Ni-MH rechargeable cylindrical cell (Data Sheet) 700mAh

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	
	Nominal	700mAh	
Typical Internal Impedance		Less than 28mΩ	
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	

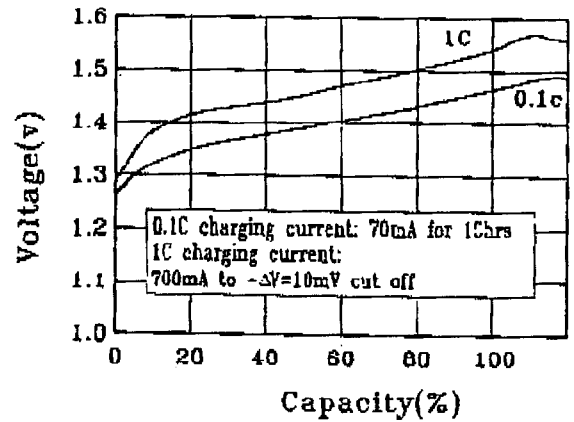
(CELL DIMENSIONS)



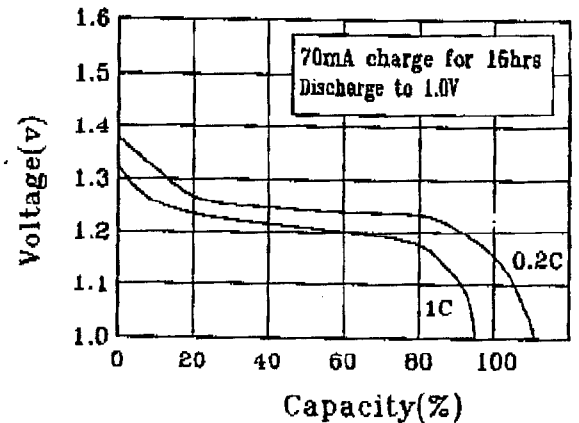
(With tube)

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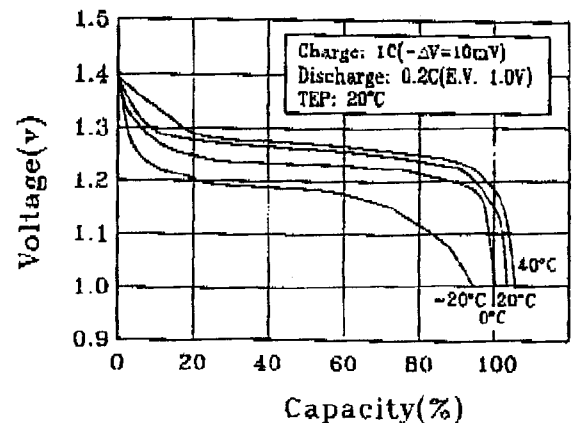
CHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS AT DIFFERENT TEMPERATURE



Atmospheric Pressure $960 \pm 100\text{mbar}$

Voltmeters and ammeters to be used in test shall be of grade 0.5 over.

Test Item		Condition	Specification
1. Charge	Standard	Charge at 0.1C for 16 hours	
	Rapid	Charge at 1C to $\Delta=10\text{mV/cell}$	
2. Standard Discharge		At 0.2C to 1.0V/cell	
3. Discharge Cut-off Voltage			1.0V
4. Capacity	Nominal	Standard Charge/Discharge	700mAh
	Typical	Standard Charge/Discharge	750mAh
5. Internal resistance		After fully charge, rest 1 hour, measured at 1000Hz	$\leq 28\text{m}\Omega$
6. Cycle life		Standard charge then rest 1 hour, discharge(1C) to 1.0V/cell, rest 30min after discharge	Capacity Retention $\geq 80\%$ After 500 cycles
7. Self-Discharge		The charged battery is stored for 28 days at $20^\circ\text{C} \pm 5^\circ\text{C}$. And the discharge time is measured at standard discharge	$\geq 180\text{minutes}$
8. High Temperature Test		Store at 40°C , 50°C , 60°C for 2 hours then Charge/Discharge	No leakage
9. Low Temperature Test		Store at 0°C for 2 hours then Charge/Discharge	No leakage
10. Short Circuit Test		Short circuit after fully charge	No explode
11. Drop Test		Free fall on the concrete from 3 meters after fully charged	No leakage No short-circuit

1. Preface

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

2. Model

PH-AAA700H

3. Appearance

There shall be no such defects as discoloration, electrolyte leakage or no voltage.

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	
Internal Impedance(m Ω)		≤ 28	
Discharge Cut-off Voltage		1.0V	
Ambient temperature	Charge	standard	0°C to 40°C
		Rapid	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	

5. Characteristics

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

Ambient Temperature $20 \pm 5^\circ\text{C}$

Relative Humidity $65 \pm 20\%$