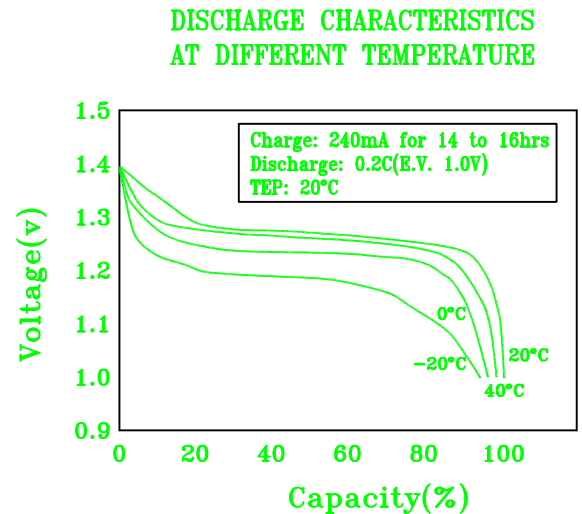
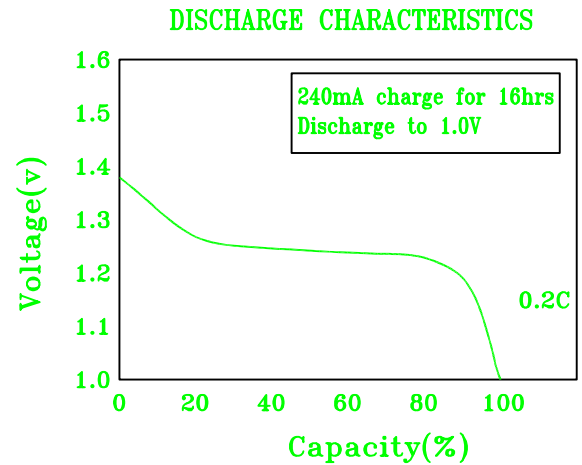
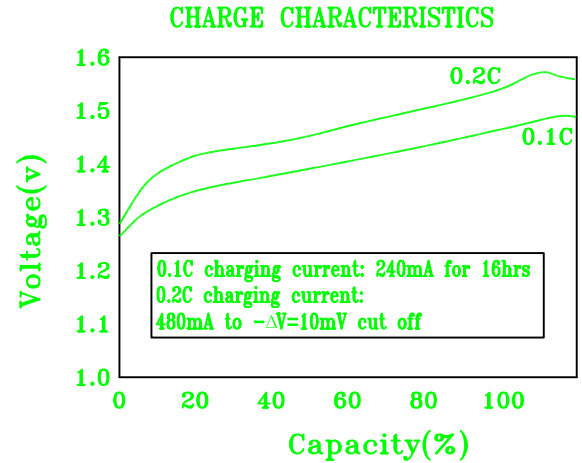


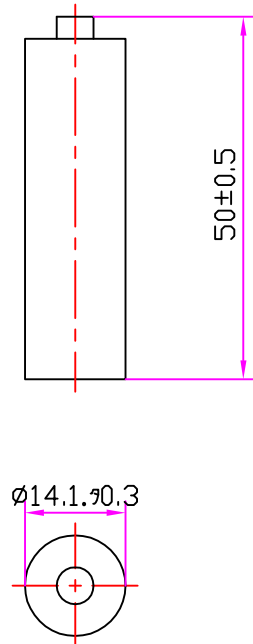
Ni-MH rechargeable cylindrical cell

Data Sheet

Nominal Voltage		1.2V	
Dimensions	Diameter	14.1±0.3mm	
	Height	50.0±0.5mm	
	Apx. Weight	31g	
0.2C Discharge Capacity		2350mAh	
Typical Internal Impedance		Less than 28mΩ	
Charge		240mA for 16hrs	
Life expectancy		500 cycles	
Operating Temperature	Charge	0°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)

1:1

Specification for NiMH AA 2400mAh

1. Preface

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

2. Model

PH-AA2400H

3. Appearance

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

4. Nominal specification

Description		Specification	
Model		PH-AA2400H	
Size		AA	
Dimensions	Diameter(mm)	14.1±0.3	
	Height(mm)	50.0±0.5	
	Weight(g)	Approx.31g	
Nominal Voltage(V)		1.2	
Nominal capacity(mAh)		2350	
Internal Impedance(mΩ)		≤28	
Discharge Cut-off Voltage		1.0V	
Ambient temperature	Charge	standard	0 to 40
		quick	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%

Specification for NiMH AA 2400mAh

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

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		
	Quick	Charge at 0.2C to $V=5-10\text{mV}$ (no more than 7hours)		
2. Discharge		At 0.2C to 1.0V		
3. Discharge cut-off voltage				1.0V
4.Capacity (mAh)	Minimun	Standard charge/discharge		2260mAh
	Typical	Standard charge/discharge		2350mAh
5. Internal resistance		After fully charge,rest 1 hour, measured at 1000Hz		$\leq 28\text{m}\Omega$
6. Self-Discharge		The charged battery is stored for 28 days at 20 ± 5 . And the discharge time is measured at standard discharge		$\geq 180\text{minutes}$
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 $\geq 60\%$ 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	