

Customer/□□: _____

Specification

MODEL/□□: H-AA2200H(LSD)

Prepared By/Date □ □/□ □	Checked By/Date □ □/□ □	Approved By/Date □ □/□ □

Customer Approval	Signature/Date(□□/□□)
	Company Name(□□□□)
	Company Stamp(□□□□)

Amendment Records

□□□□□□

Edition (□□)	Description □□ □□	Prepared by □□ □□	Approved by □□ □□	Date □□ □□
A	First Publish			

1. Preface

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

2. Model

PH-H-AA2200H(LSD)

3. Appearance

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

4. Nominal specification

Description		Specification	
Model		PH-H-AA2200H(LSD)	
Size		AA	
Dimensions	Diameter(mm)	14.5+0/-0.7	
	Height(mm)	50.5+0/-1.5	
	Weight(g)	Approx. 28g	
Nominal Voltage(V)		1.2	
Nominal capacity(mAh)		2200	
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:

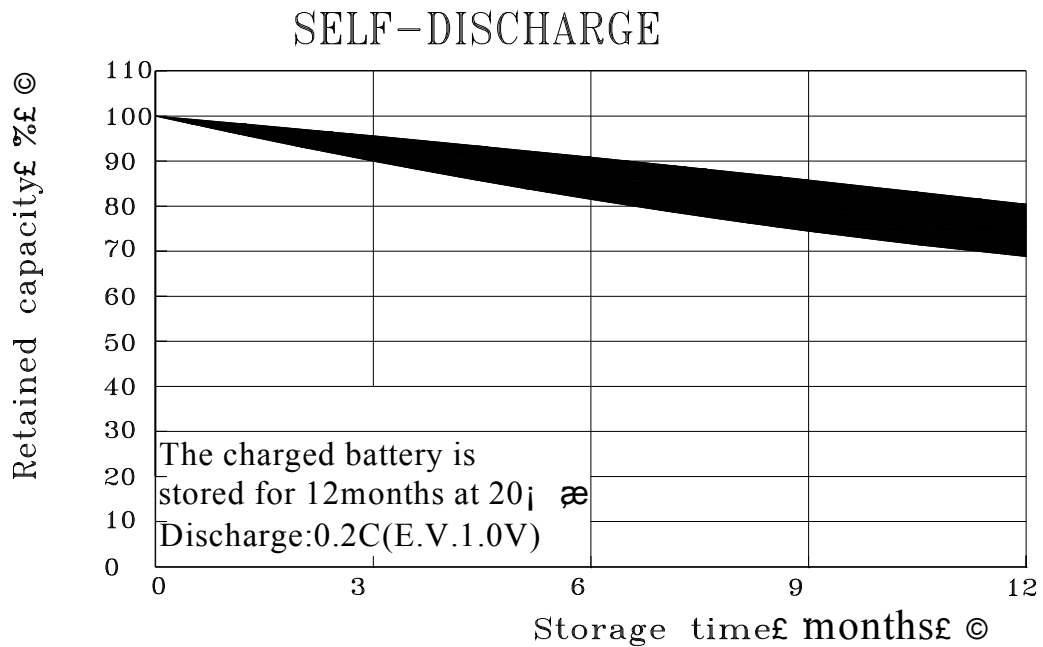
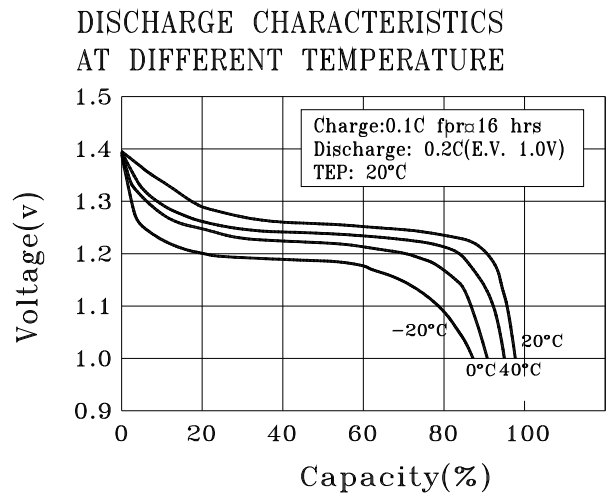
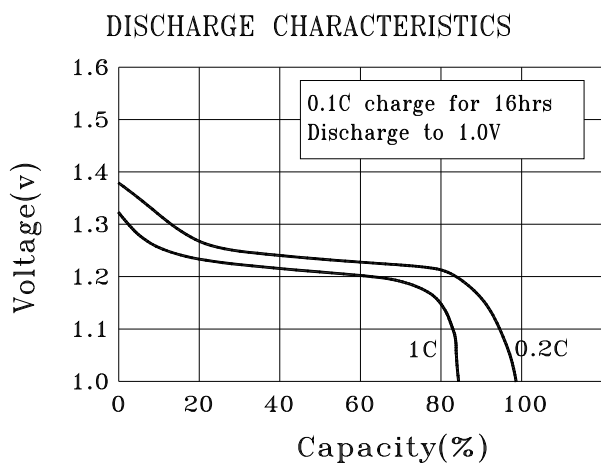
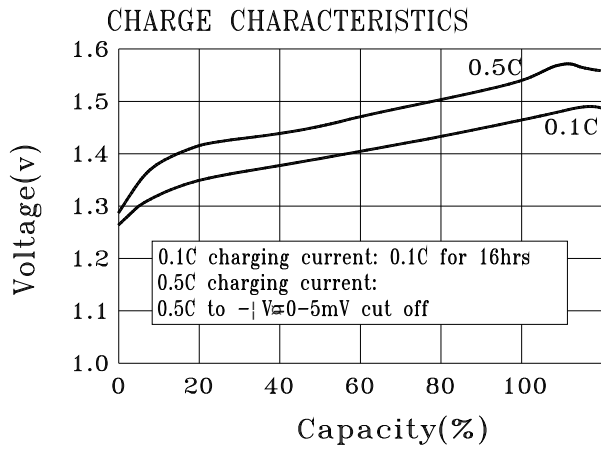
Ambient temperature 20±5□

Relative humidity 65±20%

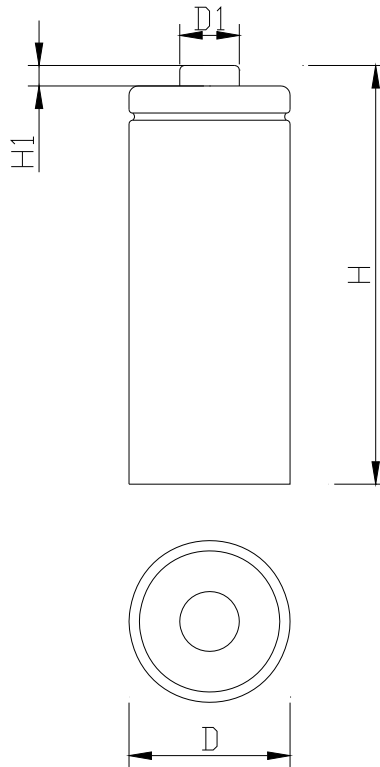
Atmospheric pressure 960±100mbar

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		Ta=0~40□
	Fast	Charge at 0.5C to -□V=0-5mV		Ta=10~40□
	Trickle	(0.03C)-(0.05C)		Ta=0~40□
2. Discharge		At 0.2C to 1.0V		
3. Discharge cut-off voltage				1.0V
4.Capacity (mAh)	Minimum	Standard charge/discharge		2150
	Typical	Standard charge/discharge		2200
5. Internal resistance		After fully charge,rest 1 hour, measured at 1000Hz		≤30mΩ
6.Hight Rate Dicharge(0.5C)		Standard charge 1hour rest Before Discharge by 0.5C to 1.0V		≥116minutes
7. Self-Discharge		The charged battery is stored for 12months at 20□. And the discharge time is measured at standard discharge		Capacity retention≥75%
8. Overcharge		220mA(0.1C) charge 28 days		No leakage nor deformation
9. High temperature test		Store at 40□50□60□ for 2 hours then charge/discharge		No leakage
10. Low temperature test		Store at 0□ for 2 hours then charge/discharge		No leakage
11. Short circuit test		Short circuit after fully charge		No explode
12. Drop test		Free fall on the concerte from 1 meters after fully charged		No leakage No short-circuit
13.Leakage test		standard charge stand for 14days		No leakage nor deformation
14.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	



7. Drawing:



Items	Description	Dimension
D	Diameter	14.5+0/-0.7 mm
D1	Diameter1	Max:5.5mm
H	Height	50.5+0/-1.5mm
H1	Height1	Min:1.0mm

8. Cautions in use

To ensure proper use of the battery please read the manual carefully before using it.

Handling

- Do not expose to, dispose of the battery in fire.
- Do not put the battery in a charger or equipment with wrong terminals connected.
- Avoid shorting the battery.
- Avoid excessive physical shock or vibration.
- Do not disassemble or deform the battery.
- Do not immerse in water.
- Do not use the battery mixed with other different make, type, or model batteries.
- Keep out of the reach of children.

Storage

Store the battery in a cool, dry and well-ventilated area.

Disposal

Regulations vary for different countries.

Dispose of in accordance with local regulations.

9. Note

Any other items which are not covered in this specification shall be agreed by both parties.