

## NIMH Battery

日期 Date: 2012.06.18

规格号码 Document NO.

版本 Rev

1

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# Specification

**MODEL/型号: 4/5AA1250**

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### 1. Preface

This specification is suitable for the performance of the CHEAPE TECHNOLOGY INTERNATIONAL LTD

### Model

CT-4/5AA1250

### 2. Appearance

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

### 3. Nominal specification

Description		Specification	
Model		CT-4/5AA1250	
Size		AA	
Dimensions	Diameter(mm)	14.5+0/-0.7	
	Height(mm)	43.0+0/-1.5	
	Weight(g)	Approx. 18g	
Nominal Voltage(V)		1.2	
Nominal capacity(mAh)		1250	
Internal Impedance(mΩ)		≤45	
Discharge Cut-off Voltage		1.0V	
Ambient 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
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°C

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.

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Test item		Condition		Specification
1. Charge	Standard	Charge at 0.1C for 16 hours		Ta=0~40℃
	Fast	Charge at 0.5C to $-\Delta V=0-5mV$		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		1200
	Typical	Standard charge/discharge		1250
5. Internal resistance		After fully charge, rest 1 hour, measured at 1000Hz		$\leq 45m\Omega$
6. High Rate Discharge(0.5C)		Standard charge 1hour rest Before Discharge by 0.5C to 1.0V		$\geq 116$ minutes
7. Self-Discharge		The charged battery is stored for 28 days at 20℃ $\pm$ 5℃. And the discharge time is measured at standard discharge		$\geq 180$ minutes
8. Overcharge		120mA(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 concrete 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 $\geq 60\%$ 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	



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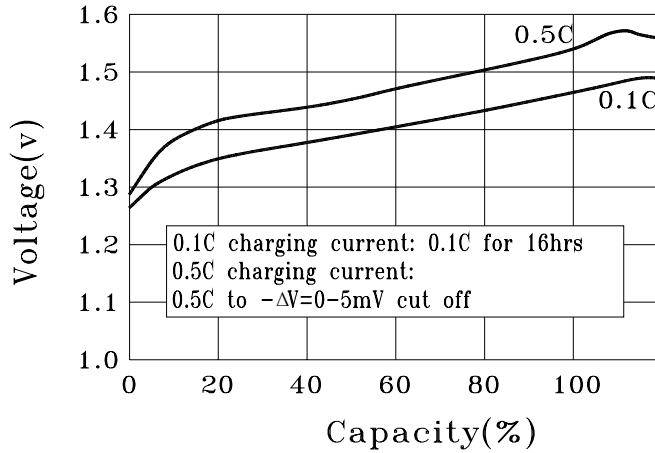
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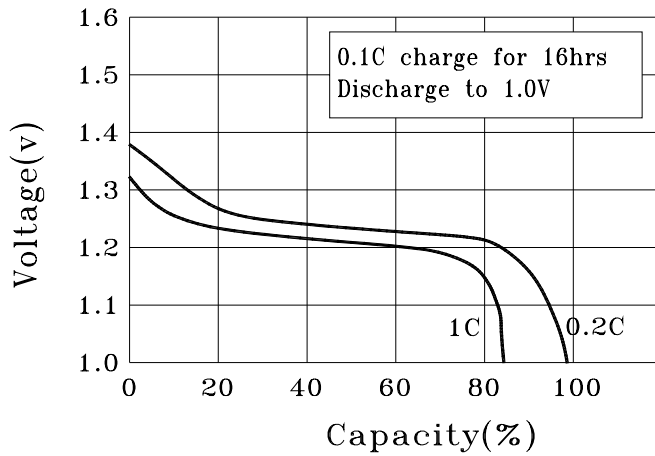
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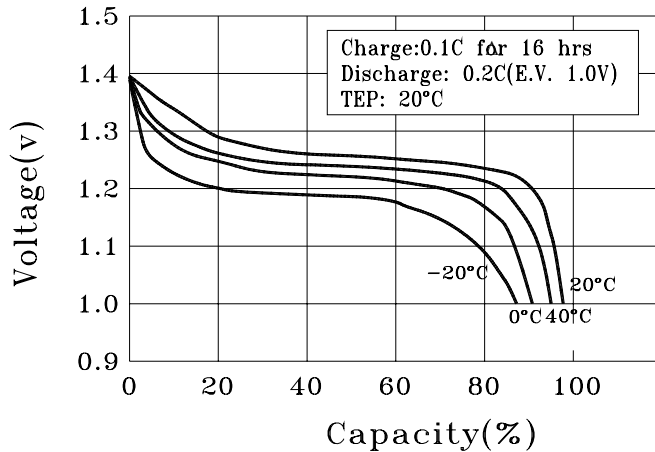
**CHARGE CHARACTERISTICS**



**DISCHARGE CHARACTERISTICS**



**DISCHARGE CHARACTERISTICS AT DIFFERENT TEMPERATURE**

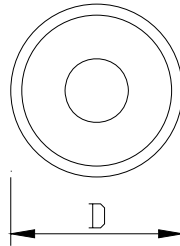
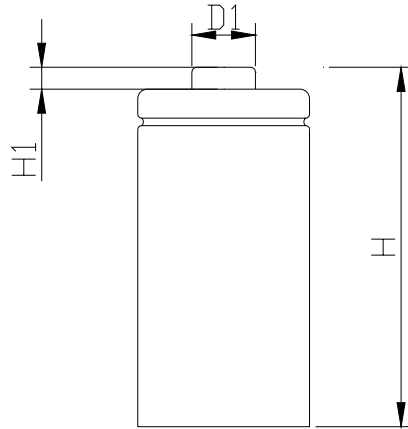


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7. Drawing:



Items	Description	Dimension
D	Diameter	14.5+0/-0.7 mm
D1	Diameter1	Max:5.5mm
H	Height	43.0+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



深圳市驰普电子科技有限公司  
CHEAPE TECHNOLOGY INTERNATIONAL LTD

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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.