SPECIFICATION

To: _____

Model: **JN40H**

Files Code: 40H116054.1A0

SN: *393731554*

Please consult us regarding charge and discharge conditions for use and product design prior to the release of a battery-operated product.




Date of Issue:2008-3-11

DATA SHEET

E1

1.SYSTEM Rechargeable Ni-MH Button Cells

2.DATA SHEEL

Nominal Capacity	40mAh	
Nominal Voltage	1.2V	
Normal Charging	4mA	for 16h
Trickle Charging	1.2-2mA	continuous
Normal Discharging	8mA	
Discharge cut-off Voltage	1.0V	
Operating Temperature	-20~35℃	

3. TEST CONDITIONS

Test item	Condition	Specification
Condition for standard operation	The test is carried out with new batteries (within a month after delivery). ambient conditions: Temperature: 20±5℃ Humidity：65±20% Tolerances ±5‰ for voltage and current	
(1)Normal Charge	charging at a constant current of 0.1C(4mA) for 16h. Prior to charging, the cell shall have been discharged at a constant current of 0.2C(8mA), down to a final voltage of 1.0V/cell.	
(2)Open Circuit Voltage (OCV)	After 1 hour normal charge	≥1.25V
(3)Capacity	The cell shall be charged. After charging, the cell shall be stored for 1h,then the cell shall have been discharged at a constant current of 0.2C(8mA), down to a final voltage of 1.0V/cell. five cycles are permitted for this test.	⩾300min

<table>
<tr><td>(4)Overcharge</td><td colspan="4">Prior to this test,the cell shall be discharged .The cell shall then be charged at a constant current of 0.1C(4mA)for 48h. After this charging operation,the cell shall be stored 1h,The cell shall then be discharged at a constant current of 0.2C(8mA)to a final voltage of 1.0V/cell.</td><td>≥300min</td></tr>
<tr><td>(5)Charge retention</td><td colspan="4">The charged cell is stored for 28 days .And the discharge time is measured at normal discharge.</td><td>⩾225min</td></tr>
<tr><td rowspan="7">(6)Life expectancy (IEC cycle)</td><td>Cycle number</td><td>Charge</td><td>Rest</td><td>Discharge</td><td rowspan="7">Amount of cycles ≥500</td></tr>
<tr><td>1</td><td>4mA x 960min</td><td>None</td><td>10mAx140 min</td></tr>
<tr><td>2-48</td><td>10mAx190 min</td><td>None</td><td>10mAx140 min</td></tr>
<tr><td>49</td><td>10mAx190 min</td><td>None</td><td>10mA to 1.0V/cell</td></tr>
<tr><td>50</td><td>4mA x 960min</td><td>1-4h</td><td>8mA to 1.0V/cell</td></tr>
<tr><td colspan="4">Cycles 1 to 50 shall be repeated until the discharge duration on any 50th cycle becomes less than 3h. At this stage, a repeat capacity measurement as specified for cycle 50 shall be carried out.The endurance test is considered complete when two such successive capacity cycles give a discharge duration of less than 3h. [IEC61951-2:(2003)7.4.1.1]</td></tr>
</table>

4.PRECAUTION

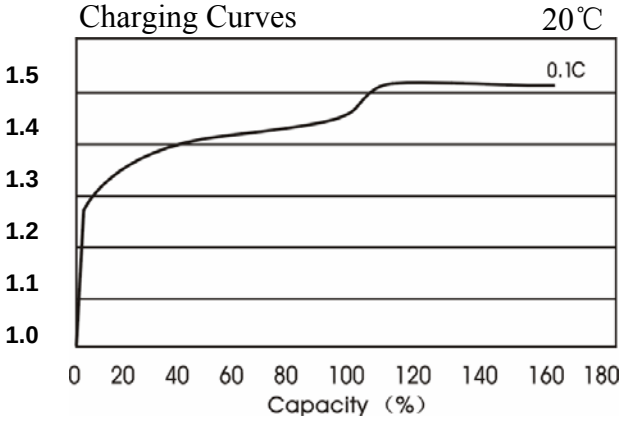
4.1 Never short-circuit or reverse polarity in application.

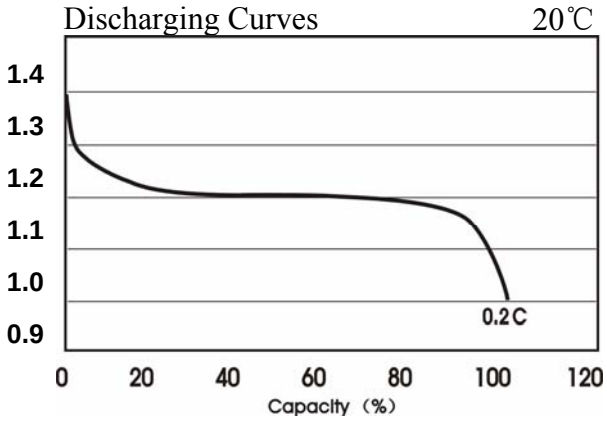
4.2 Avoid throwing cells into a fire or attempting to disassemble them.

4.3 This is not safety: use the cell without the specified working temperature range, charge and discharge with more than our specified current.

4.4 Do not mix batteries with metal objects during storage or transportation to avoid accidental short-circuit.

5.TYPICAL PERFORMANCE





DRAW

E1

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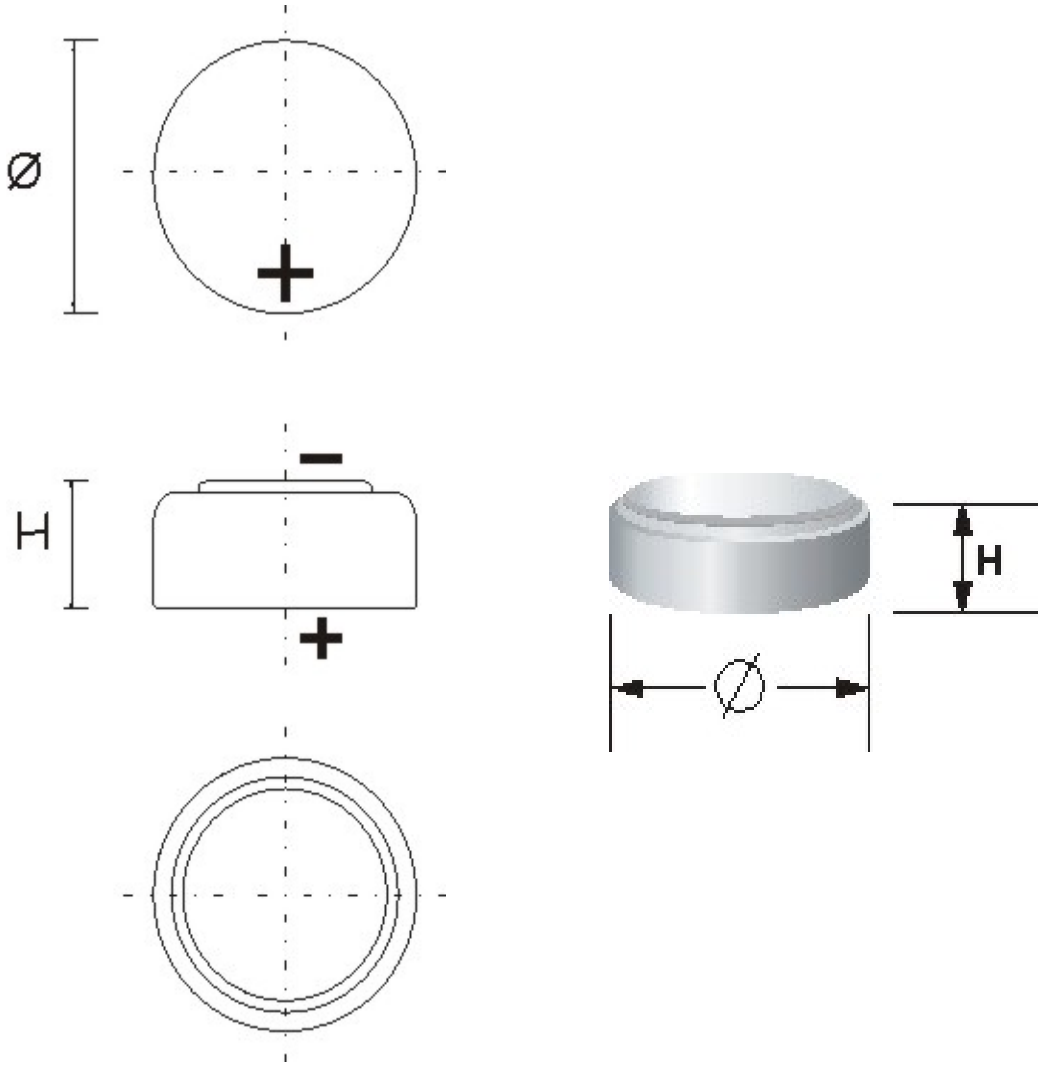

Label	H	Ø								Weight
Dimensions(mm)	5.4	11.6								2g
Tolerance	Max.	Max.								Approx.

DRG. NO.	Tag of Anode	Tag of Cathode	Connector	Wire	PVC Tube	
116054.1A0						