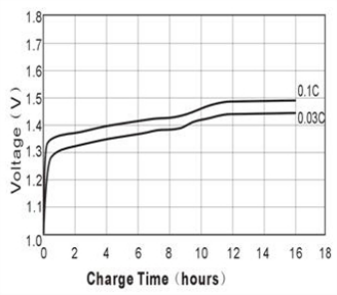
HISUN 海盛電池

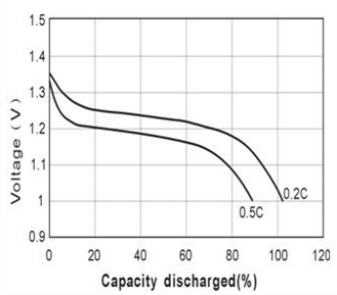
330H G

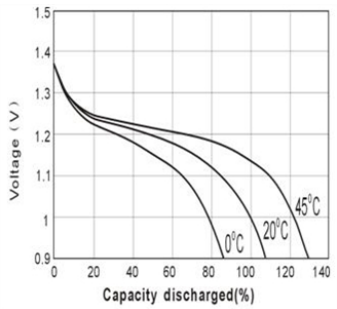
● Specifications of single cell

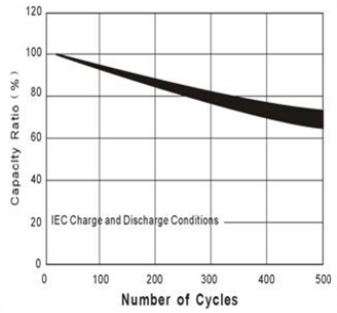
Type	Sealed Ni-MH button cell
Nominal Voltage	1.2V（Single cell, Series voltage is 1.2 * N）
Nominal Capacity	330mAh
Average Weight	13g
Diameter	Ø25.2mm
Height	8.8mm（Max.）
Charging Method: (20℃)	
Standard Charge，	Charge with 0.1C (33mA) for 14-16 hours
Quick Charge	Charge with 0.2C (66mA) for 7-8 hours
Max Overcharge Current	33mA(No longer than 48 hours)
Trickle Current	10-16.5 mA
Discharge	66mA
	330mA（Max.）
Operating Temperature(reference only):	
Storage	-10℃~35℃
Discharge:	-10℃~65℃
Standard Charge	0℃~45℃
Fast Charge	10℃~35℃

● Typical characteristics

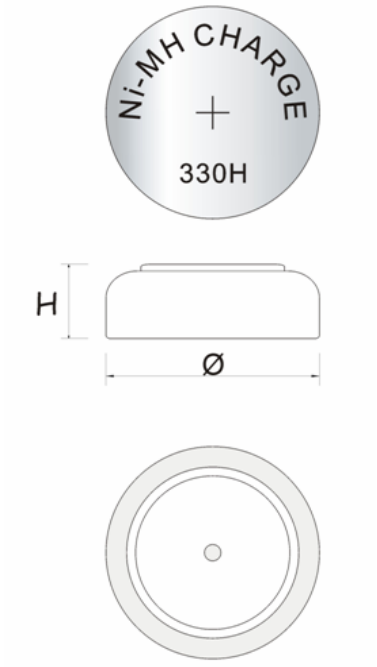








● Single battery draw



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Ver：201203a

Performance

<table>
<tr><th>Testing Item</th><th colspan="4">Testing Conditions</th><th>Standard</th></tr>
<tr><td>Standard Testing Condition</td><td colspan="4">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</td><td></td></tr>
<tr><td>Normal Charge</td><td colspan="4">charging at a constant current of 0.1C for 16h.Prior to charging, the cell shall have been discharged at a constant current of 0.2C, down to a final voltage of 1.0V/cell *N.</td><td></td></tr>
<tr><td>(1)OpenCircuit Voltage</td><td colspan="4">Test within 14 days after standard charge</td><td>≥1.25V *N</td></tr>
<tr><td>(2)Capacity</td><td colspan="4">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, down to a final voltage of 1.0V/cell *N. 5 cycles are permitted for this test.</td><td>≥300min</td></tr>
<tr><td>(3)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 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 to a final voltage of 1.0V/cell *N.</td><td>≥255min</td></tr>
<tr><td>(4)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">(5)Life expectancy (IEC cycle)</td><td>Cycle</td><td>Charge</td><td>Rest</td><td>Discharge</td><td rowspan="7">≥500th cycle</td></tr>
<tr><td>1</td><td>0.1C x 960min</td><td>None</td><td>0.25C x140 min</td></tr>
<tr><td>2-48</td><td>0.25C x190 min</td><td>None</td><td>0.25C x140 min</td></tr>
<tr><td>49</td><td>0.25C x190 min</td><td>None</td><td>0.25C to 1.0V/cell *N</td></tr>
<tr><td>50</td><td>0.1C x 960min</td><td>1-4h</td><td>0.2C to 1.0V/cell *N</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>
<tr><td>(6)Storage</td><td colspan="4">Standard Charged as (1) condition and stored for 12 months under 20℃±5℃,then tested as (4) condition.</td><td>≥240min</td></tr>
</table>

Note

1) Do not dispose of cell into fire or be dismantled under any condition.
2) Do not mix different cell types and capacities in the same battery assembly.
3) Charge and discharge under specified ambient temperature recommended to HISUN specification.
4) Short circuit leading to cell venting must be avoided.
5) Never solder onto cell directly.Cell reversal should be avoided.
6) Use batteries in extreme condition may affect the service life, such as: extreme temperature, deep cycle, extreme overhcarge and over discharge.
7) Batteries should be stored in a cool dry place.
8) Up to three full cycles of charge /discharge after long-termed storage may need to obtain highest capacity.
9) Quality assurance period: 12 months