

# 16H

## Specifications of single cell

Nominal Voltage

Nominal Capacity

Average Weight

Diameter

Type

Height

Charging Method: (20°C)

Standard Charge,

Quick Charge

Max Overcharge Current

Trickle Current

Discharge

Operating Temperature(reference only):

Storage

Discharge:

Standard Charge

Fast Charge

Sealed Ni-MH button cell

1.2V (Single cell, Series voltage is 1.2 \* N)

160mAh

5g

23.5 (L) x15.1 (W) mm

5.7mm (Max.)

Charge with 0.1C (16mA) for 14-16 hours

Charge with 0.2C (32mA) for 7-8 hours

16mA(No longer than 48 hours)

5-8 mA

32mA

80mA (Max.)

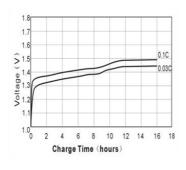
-10℃~35℃

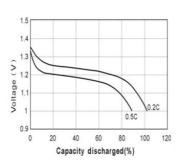
-10°C~65°C

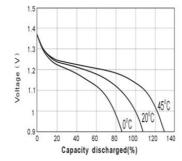
0°C~45°C

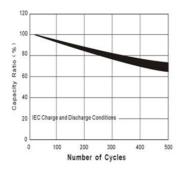
10℃~35℃

### Typical characteristics

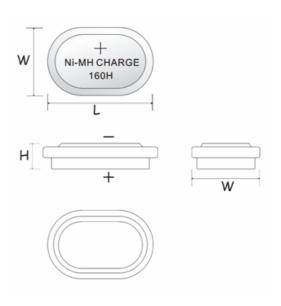








### Single battery draw



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#### Performance

Testing Item	Testing Conditions				Standard	
Standard Testing	The test is carried out with new batteries (within a month after delivery). ambient co				onditions:	
Condition	Temperature: 20±5°C Humidity: 65±20% Tolerances ±5% for voltage and current					
Normal Charge	charging at a constant current of 0.1C for 16h.Prior to charging, the cell shall have				we been discharged at a	
	constant current of 0.2C, down to a final voltage of 1.0V/cell *N.					
(1)OpenCircuit Voltage	Test within 14 days after standard charge				≥1.25V *N	
(2)Capacity	The cell shall be charged. After charging, the cell shall be stored for 1h,then the				≥300min	
	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.					
(3)Overcharge	Prior to this test, the cell shall be discharged .The cell shall then be charged at a				≥255min	
	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.					
(4)Charge retention	The charged cell is stored for 28 days .And the discharge time is measured at				≥225min	
	normal discharge.					
(5)Life expectancy	Cycle	Charge	Rest	Discharge	≥500 <sup>th</sup> cycle	
(IEC cycle)	1	0.1C x 960min	None	0.25C x140 min		
	2-48	0.25C x190 min	None	0.25C x140 min		
	49	0.25C x190 min	None	0.25C to 1.0V/cell *N		
	50	0.1C x 960min	1-4h	0.2C to 1.0V/cell *N		
	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]					
(6)Storage	Standard Charged as (1) condition and stored for 12 months under 20°C±5°C, then				≥240min	
	tested as (4) condition.					

#### 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 overhearge 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

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