

# Secondary Battery

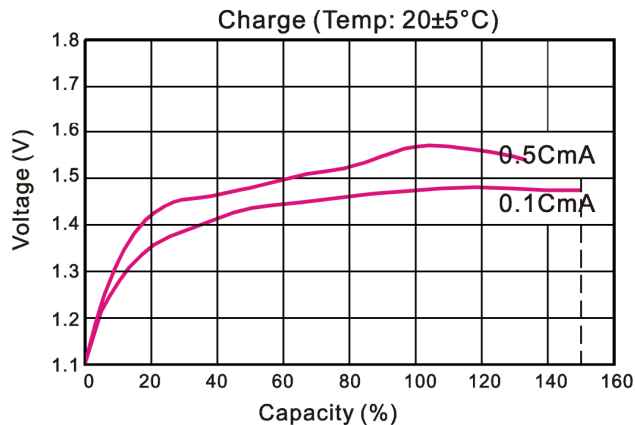
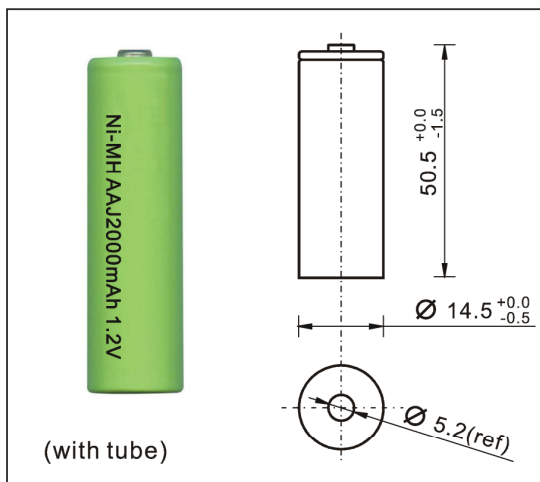
## Ni-MH Battery



Document Title: TH-AAJ2000E 1.2V

Revision: A/1

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**Type:** Rechargeable Nickel Metal Hydride Cylindrical Cell

**Nominal Dimension:** Φ=14.5mm H=50.5mm

**Applications:** Recommended discharge current 200 to 4000mA

**Nominal Voltage:** 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
	0.2C	2000(300min)	2067(310min)
When discharged to 1.0V at 20°C	0.5C	1900(114min)	1933(116min)
	1C	1800(54min)	1833(55min)

**Charge Retention:** 80% of nominal capacity after cell storage at 20°C for 6 months.  
When discharged at 400mA to 1.0V at 20°C

**Charge Condition:** 200mA for 16hrs at 20°C

**Fast Charge:** 400mA to 1000mA (0.2C to 0.5C)  
charge termination control recommended  
control parameters:  
-ΔV : 5mV  
DT/dt : 0.8°C/min(0.2C to 0.5C)  
TCO : 45-50°C  
Timer : 105% nominal input (for ref. only)

**Service Life:** >500 Cycles (IEC standard)

**Continuous:** 200mA maximum current for 48 hrs.

**Overcharge:** No conspicuous deformation and/or leakage

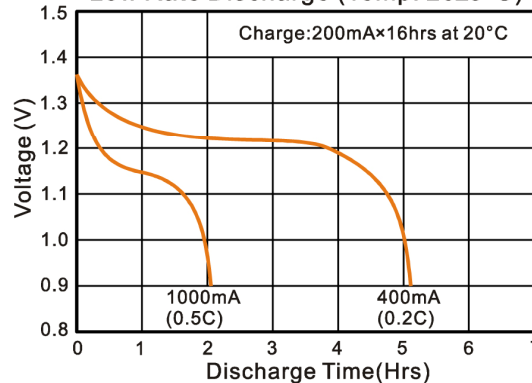
**Approx Weight:** 28.0g

**Internal Resistance:** Average 25mΩ upon fully charged  
Range 20-40mΩ at 1000Hz

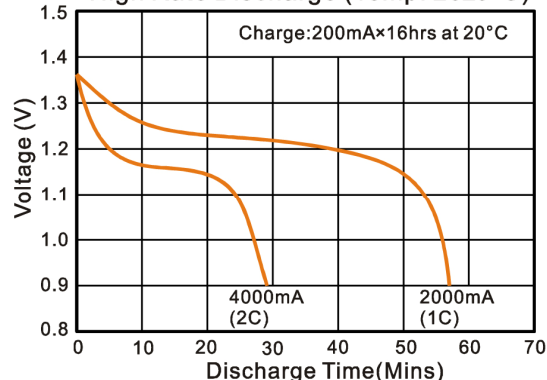
**Max. Charging Voltage:** 1.52V at 400mA charging.

**Ambient temperature Range:**  
Standard charging 0°C to 45°C  
Fast charging 10°C to 40°C  
Discharging -20°C to 60°C  
Storage -20°C to 30°C

**Low Rate Discharge (Temp: 20±5°C)**



**High Rate Discharge (Temp: 20±5°C)**



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