

# Secondary Battery

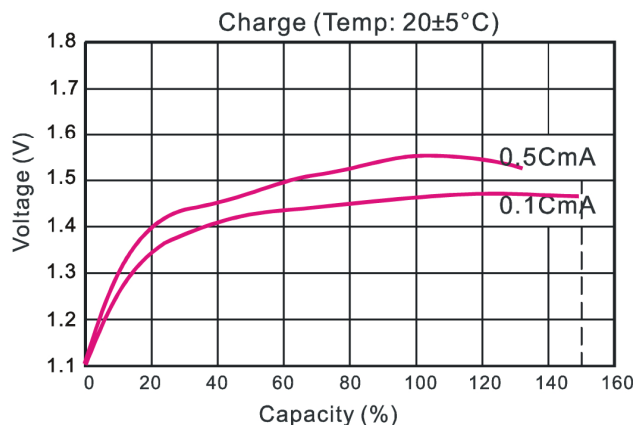
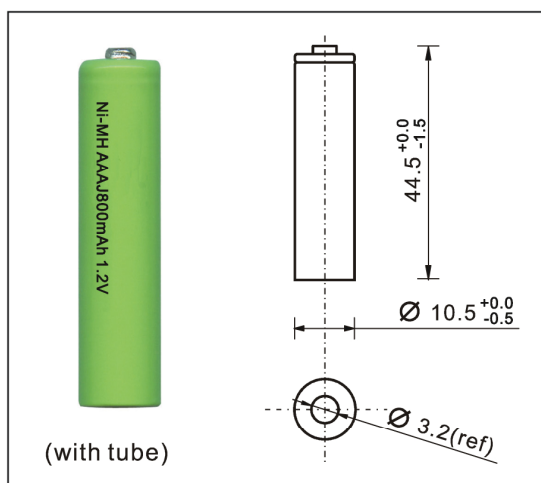
## Ni-MH Battery



Document Title: TH-AAAJ800E 1.2V

Revision: A/1

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

**Nominal Dimension:**  $\Phi=10.5\text{mm}$  H=44.5mm

**Applications:** Recommended discharge current 80 to 1600mA

**Nominal Voltage:** 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
	0.2C	800(300min)	840(315min)
When discharged to 1.0V at 20°C	1C	720(54min)	760(57min)
	2C	640(24min)	680(25.5min)

**Charge Retention:** 80% of nominal capacity after cell storage at 20°C for 6 months.  
When discharged at 160mA to 1.0V at 20°C

**Charge Condition:** 80mA for 16hrs at 20°C

**Fast Charge:** 160mA to 400mA (0.2C to 0.5C)  
charge termination control recommended  
control parameters:  
- $\Delta V$  : 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** 80mA maximum current for 48 hrs.

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

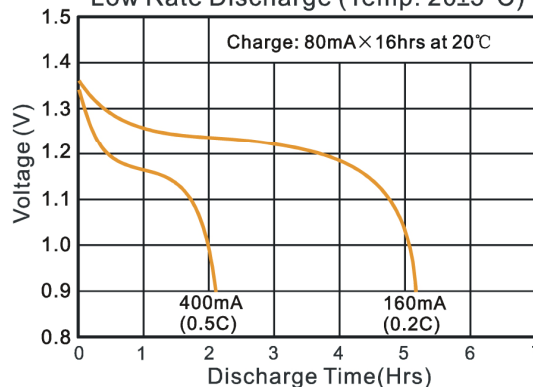
**Approx Weight:** 13.0g

**Internal Resistance:** Average 31m $\Omega$  upon fully charged  
Range 25-40m $\Omega$  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)**

