

# Secondary Battery

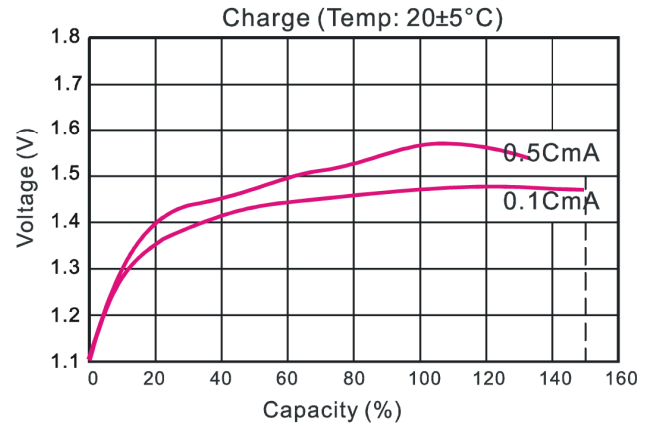
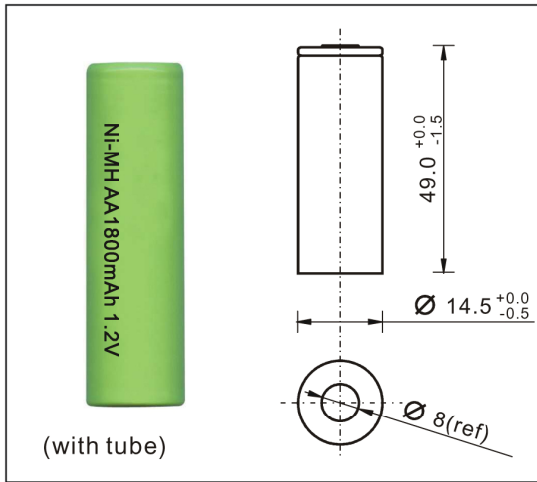
## Ni-MH Battery



Document Title: TH-AA1800C 1.2V

Revision: A/0

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

**Nominal Dimension:**  $\Phi=14.5\text{mm}$  H=49.0mm

**Applications:** Recommended discharge current 180 to 3600mA

**Nominal Voltage:** 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
	0.2C	1800(300min)	1890(310min)
When discharged to 1.0V at 20°C	1C	1620(114min)	1710(116min)
	2C	1440(54min)	1530(55min)

**Charge Retention:** 65% of nominal capacity after cell storage at 20°C for 28 days.  
When discharged at 360mA to 1.0V at 20°C

**Charge Condition:** 180mA for 16hrs at 20°C

**Fast Charge:** 360mA to 1800mA (0.2C to 1C)  
charge termination control recommended  
control parameters:  
- $\Delta V$  : 5mV  
DT/dt : 0.8°C/min(0.5C to 1C)  
TCO : 45-50°C  
Timer : 105% nominal input  
(for ref. only)

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

**Continuous** 180mA maximum current for 48 hrs.

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

**Approx Weight:** 28.0g

**Internal Resistance:** Average 25m $\Omega$  upon fully charged  
Rance 20-30m $\Omega$  at 1000Hz

**Max. Charging Voltage:** 1.52V at 360mA 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

