

# Secondary Battery

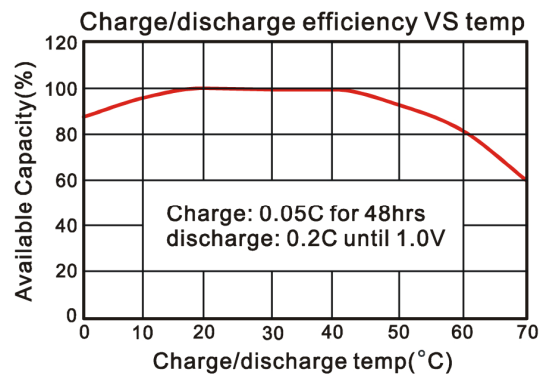
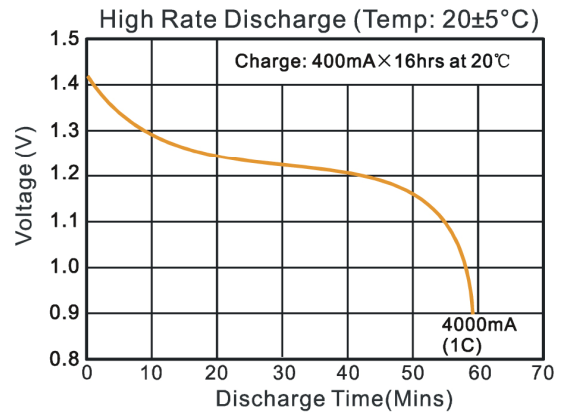
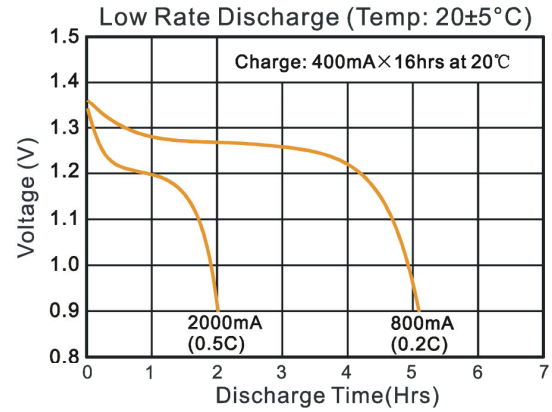
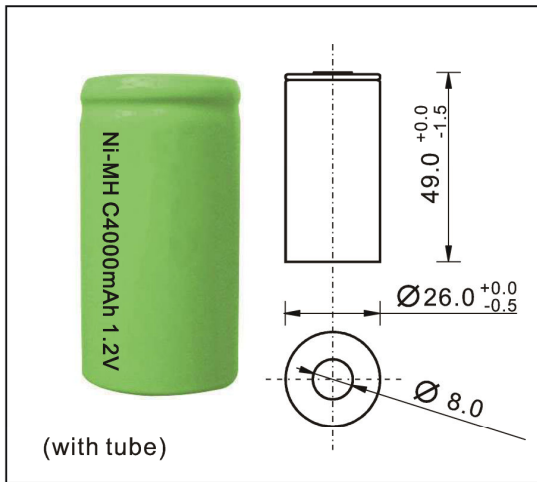
## Ni-MH Battery



Document Title: TH-C4000T 1.2V

Revision: A/0

Page 1 of 1



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

**Nominal Dimension:**  $\Phi=26.0\text{mm}$  H=49.0mm

**Applications:** Recommended discharge current 400 to 4000mA

**Nominal Voltage:** 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
	When discharged to 1.0V at 20°C	0.2C	4000(300min)
	1C	3600(54min)	3800(57min)

**Charge Retention:** 65% of nominal capacity after cell storage at 20°C for 28 days.  
When discharged at 800mA to 1.0V at 20°C

**Charge Condition:** 400mA for 16hrs at 20°C

**Fast Charge:** 120mA to 200mA (0.03C to 0.05C)  
charge termination control recommended  
control parameters:  
- $\Delta V$  : 5mV  
DT/dt : 0.8°C/min(0.03C to 0.05C)  
TCO : 45-50°C

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

**Continuous:** 400mA maximum current for 48 hrs.

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

**Approx Weight:** 70.0g

**Internal Resistance:** Average 14m $\Omega$  upon fully charged  
Rance 10-20m $\Omega$  at 1000Hz

**Max. Charging Voltage:** 1.52V at 800mA charging.

**Ambient temperature Range:**

charging	0°C to 70°C
Discharging	-20°C to 70°C
Storage	-20°C to 35°C
Storage(1 week)	-20°C to 60°C