

Secondary Battery

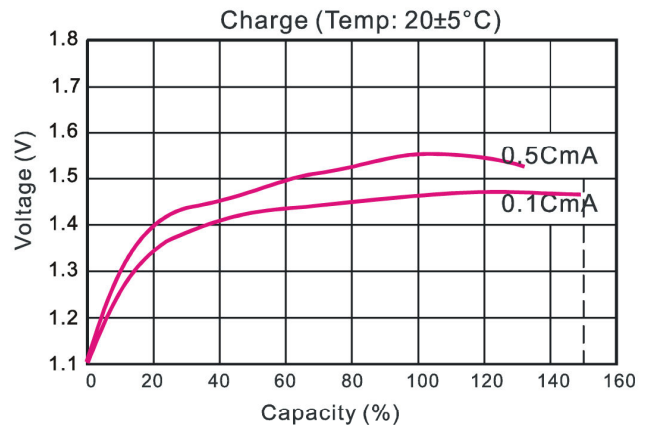
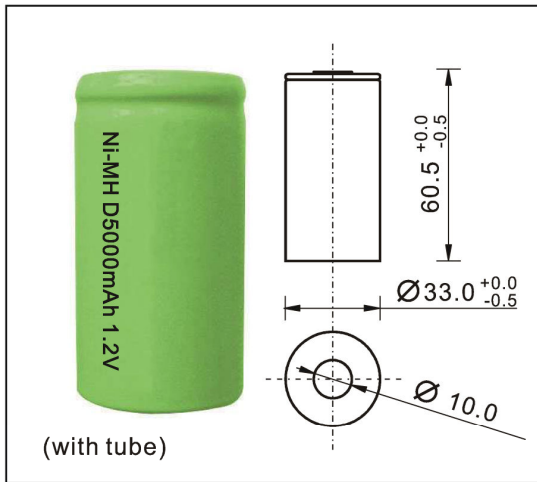
Ni-MH Battery



Document Title: TH-D5000C 1.2V

Revision: A/0

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Type: Rechargeable Nickel Metal Hydride Cylindrical Cell

Nominal Dimension: $\Phi=33.0\text{mm}$ H=60.5mm

Applications: Recommended discharge current 500 to 1000mA

Nominal Voltage: 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
	0.2C	5000(300min)	5250(310min)
When discharged to 1.0V at 20°C	1C	4500(54min)	4750(57min)
	2C	4000(24min)	4250(25.5min)

Charge Retention: 65% of nominal capacity after cell storage at 20°C for 28 days.

When discharged at 1000mA to 1.0V at 20°C

Charge Condition: 500mA for 16hrs at 20°C

Fast Charge: 1000mA to 2500mA (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: 500mA maximum current for 48 hrs.

Overcharge: No conspicuous deformation and/or leakage

Approx Weight: 113.0g

Internal Resistance: Average 10m Ω upon fully charged
Range 7-13m Ω at 1000Hz

Max. Charging Voltage: 1.52V at 1000mA 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

