

Secondary Battery

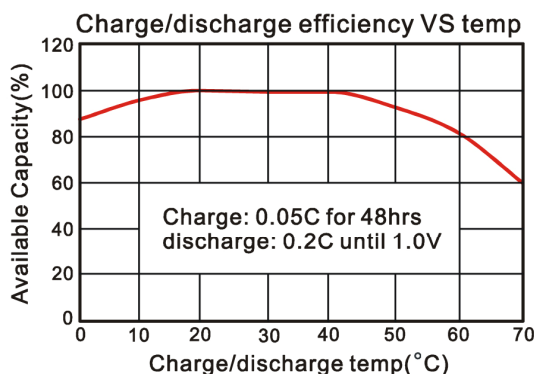
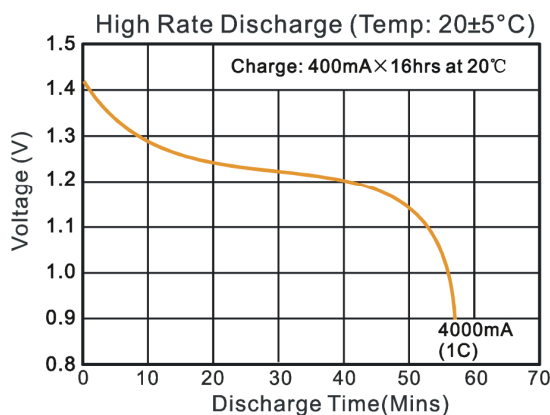
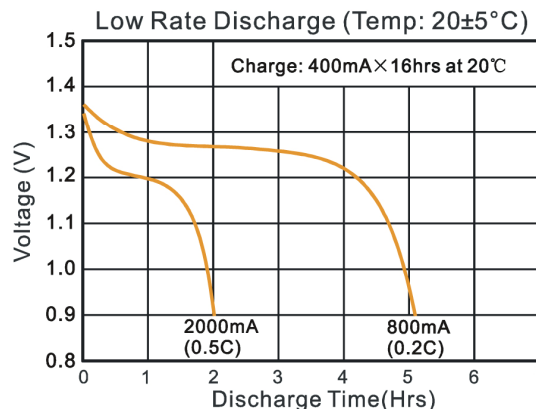
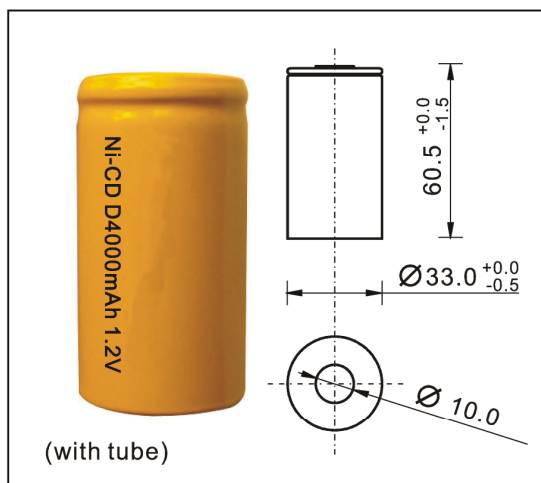
Ni-CD Battery



Document Title: T-D4000T 1.2V

Revision: A/1

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Type: Rechargeable Nickel Cadmium Cylindrical Cell

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

Applications: Recommended discharge current 400 to 4000mA

Nominal Voltage: 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
	0.2C	4000(300min)	4200(315min)
When discharged to 1.0V at 20°C	0.5C	3667(110min)	3733(112min)

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:
- ΔV : 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: 110.0g

Internal Resistance: Average 15m Ω upon fully charged
Range 15-20m Ω at 1000Hz

Max. Charging Voltage: 1.55V 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