

Secondary Battery

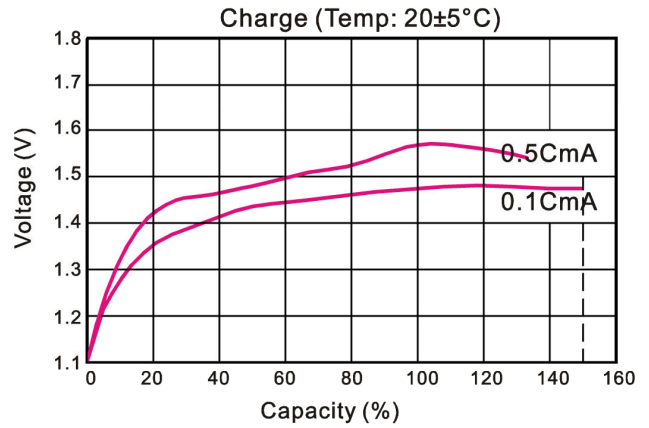
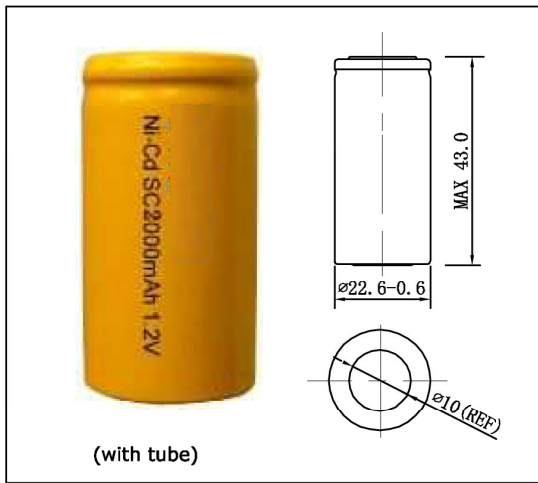
Ni-CD Battery



Document Title: T-SC2000T 1.2V

Revision: A/0

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Type: Rechargeable Nickel Cadmium Cylindrical Cell

Nominal Dimension: $\Phi=22.6\text{mm}$ H=43.0mm

Applications: Recommended discharge current 200 to 2000mA

Nominal Voltage: 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
When discharged to 1.0V at 20°C	0.2C	2000(300min)	2100(315min)
	1C	1800(54min)	1900(57min)

Charge Retention: 65% of nominal capacity after cell storage at 20°C for 28 days.
When discharged at 400mA to 1.0V at 20°C

Charge Condition: 200mA for 16hrs at 20°C

Fast Charge: 60mA to 100mA (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 Overcharge: 200mA maximum current for 48 hrs.
No conspicuous deformation and/or leakage

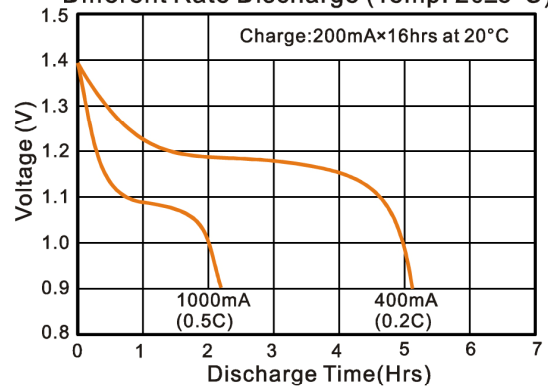
Approx Weight: 48.0g

Internal Resistance: Average 23m Ω upon fully charged
Range 20-35m Ω at 1000Hz

Max. Charging Voltage: 1.65V at 1000mA 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

Different Rate Discharge (Temp: 20 ± 5 °C)



Charge/discharge efficiency VS temp

