

Secondary Battery

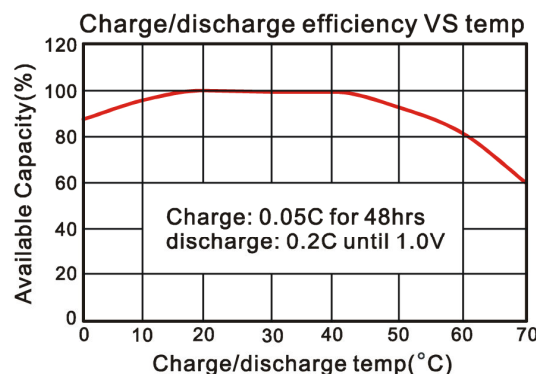
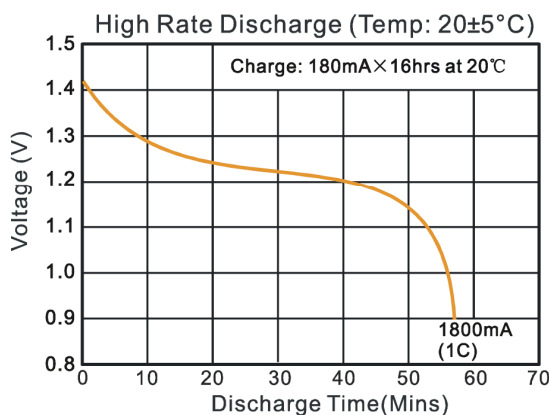
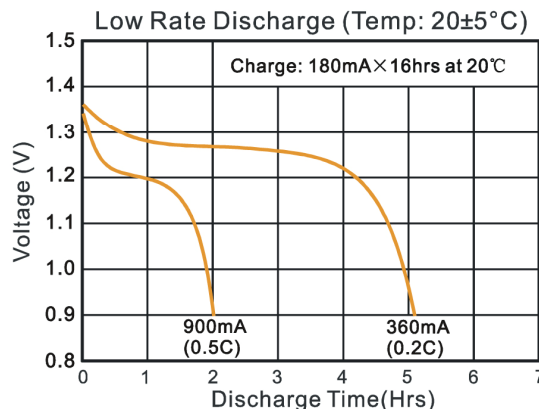
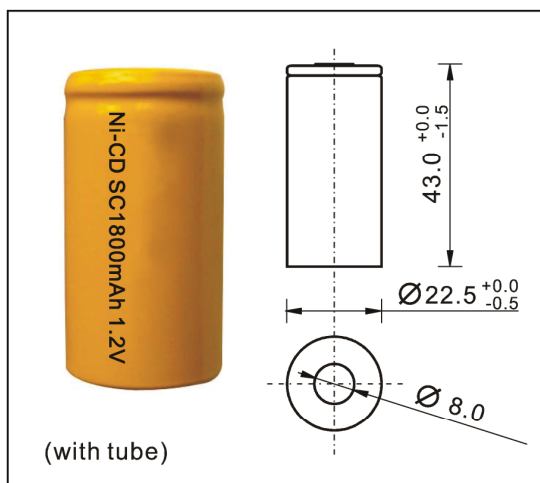
Ni-CD Battery



Document Title: T-SC1800T 1.2V

Revision: A/1

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Type: Rechargeable Nickel Cadmium Cylindrical Cell

Nominal Dimension: $\Phi=22.5\text{mm}$ H=43.0mm

Applications: Recommended discharge current 180 to 1800mA

Nominal Voltage: 1.2V

Capacity: (mAh)	Rate	Minimum	Typical
	0.2C	1800(300min)	1890(315min)
When discharged to 1.0V at 20°C	0.5C	1650(110min)	1680(112min)

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: 55mA to 90mA (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: 180mA maximum current for 48 hrs.

Overcharge: No conspicuous deformation and/or leakage

Approx Weight: 45.0g

Internal Resistance: Average 22m Ω upon fully charged
Range 15-28m Ω at 1000Hz

Max. Charging Voltage: 1.55V at 360mA 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