

Specification

Type: Rechargeable nickel metal hydride battery

Dimension

D..... $\varnothing 10.0 \pm 0.5 \text{ mm}$
d..... $\varnothing 5.0 \pm 0.2 \text{ mm}$
H..... $43.0 \pm_{0.5}^{0.0} \text{ mm}$

Nominal Voltage..... 1.2V

Weight..... ~12g

Internal resistance

At 1000Hz..... ~30m Ω

Capacity

Rated capacity..... 550mAh

1) At 0.2C discharge... 100%~110% of rated capacity.

2) At 0.5C discharge..... 95~100% of rated capacity.

3) At 1C discharge..... 90~95% of rated capacity.

1) Slow charge 55mA x 15hrs. (0-45 °C)

To avoid overcharge, a timer is used to terminate the charging after 150% capacity input.

2) Normal charge 250mA x 3hrs. (10-45 °C)

To avoid overcharge, a timer is used to terminate the charging after 150% capacity input. In addition, a temperature cut off (TCO) device, i.e. thermostat, with cut off temperature at 55 °C must be used for safety purpose.

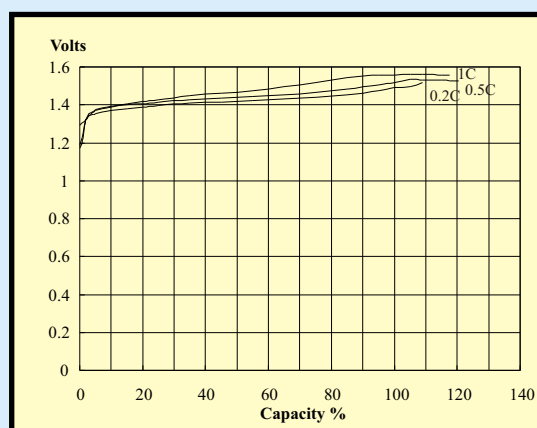
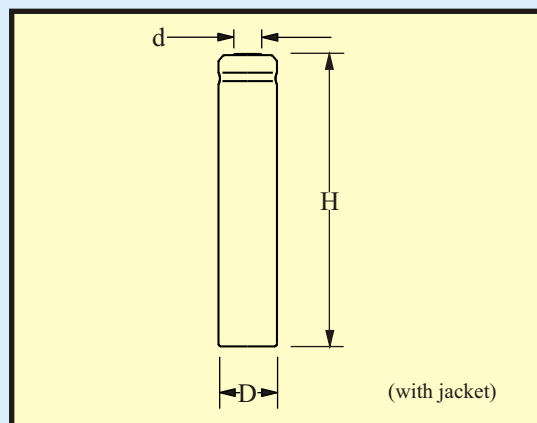
Δ

3) Quick charge 550mA x 1.2hrs. (10-45 °C) Δ

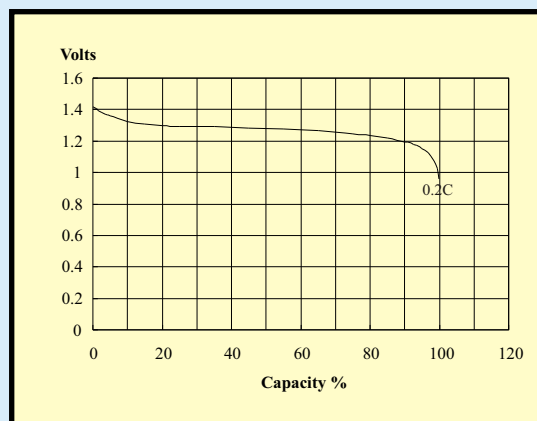
With charging current over 0.5C A, a joint use of dT or - V cut off is required. For dT control, a maximum allowable temperature rise is 1 °C/min. Or if - V control is used, the maximum allowable voltage decrease is 10 mV/cell. TCO device with cut off temperature at 60 °C should be used at the same time.

Storage:

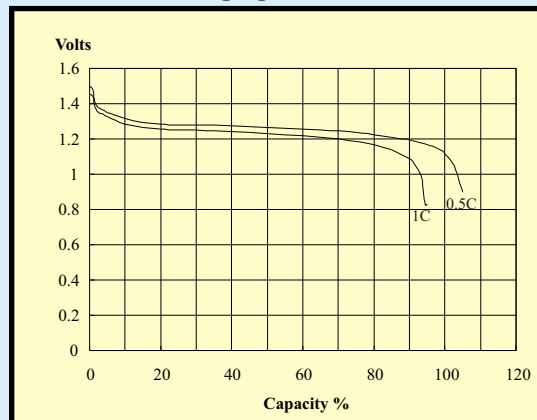
1) Storage Temperature..... -10 °C to 45 °C



0.5C / 1C Rate Discharging Curves



0.2C Rate Discharging Curve



0.2C / 0.5C / 1C Rate Charging Curves