

Specification

Type: Rechargeable nickel metal hydride battery

Dimension

D.....	$\varnothing 14.0 \pm 0.2 \text{ mm}$
d.....	$\varnothing 5.0 \pm 0.2 \text{ mm}$
H.....	$50.0 \pm 0.5 \text{ mm}$
h.....	$1.5 \pm 0.5 \text{ mm}$

Nominal Voltage..... 1.2V

Weight..... 27g

Internal resistance

At 1000Hz..... $\sim 30 \text{ m}\Omega$

Capacity

Rated capacity..... 1400mAh

- 1) At 0.2C discharge..... 100~105% of rated capacity.
- 2) At 0.5C discharge..... 95~98% of rated capacity.
- 3) At 1C discharge..... 90~95% of rated capacity.

1) Slow charge 140mA x 15hrs. (0-45 °C)
To avoid overcharge, a timer is used to terminate the charging after 150% capacity input.

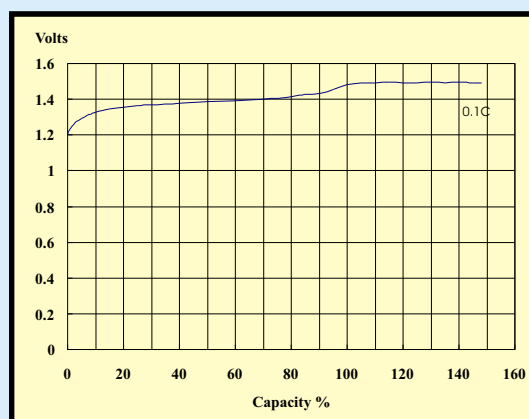
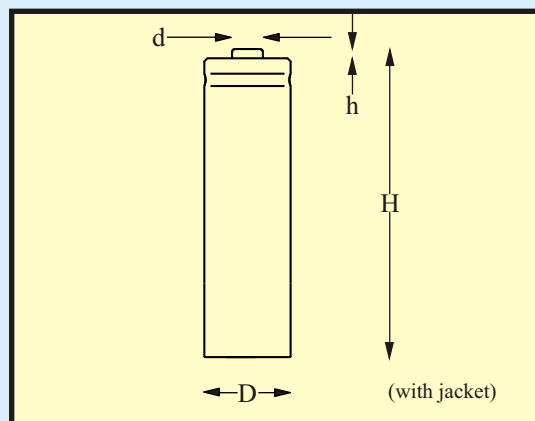
2) Normal charge 700mA x 2-3hrs. (10-45 °C)
To avoid overcharge, a timer is used to terminate the charging after 150% capacity input. A joint use of dT or $-\Delta V$ cut off is required. For dT control, a maximum allowable temperature rise is 1°C/min. Or if $-\Delta V$ control is used, the maximum allowable voltage decrease is 10 mV/cell. In addition, a temperature cut off (TCO) device, i.e. thermostat, with cut off temperature at 55 °C must be used for safety purpose.

3) Quick charge
Quick charge over rate 0.5CA is not recommended.

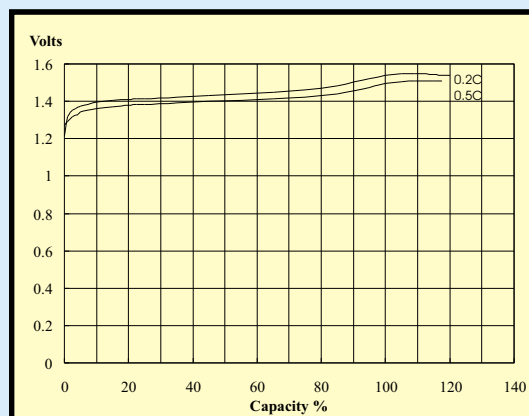
Storage:

- 1) Storage Temperature..... -10°C to 45 °C
- 2) Remain trace of charged capacity for prolonged period of storage.
- 3) Slow recharging of stored batteries for every 3 months.

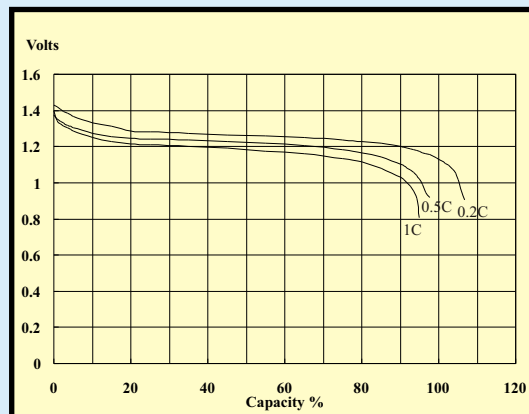
Remark: Weight and internal impedance are for reference only.



0.1C Rate Charging Curves



0.2C/0.5C Rate Charging Curve



0.2C / 0.5C / 1C Rate Discharging Curves