

Specification

Type: Rechargeable nickel metal hydride battery

Dimension

D..... $\varnothing 16.5 \pm 0.3 \text{ mm}$
d..... $\varnothing 8.0 \pm 0.2 \text{ mm}$
H..... $67.0 \pm \begin{smallmatrix} 0.0 \\ 1.0 \end{smallmatrix} \text{ mm}$

Nominal Voltage..... 1.2V

Weight..... ~ 52 g

Internal resistance

At 1000Hz..... ~18 m Ω

Typical capacity

0.2 C discharge capacity after 0.2 C rate charge for 5.5 hours

Typical capacity..... 3450 mAh

Minimum capacity 3400 mAh

Charging:

1) Slow charge 345 mA x 15 hrs. (0-45 °C)

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

2) Fast charge 172.5 mA x 2.2 hrs. (10-45 °C)

To avoid overcharge, a timer is used to terminate the charging after 120% 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.

For dT control, a maximum allowable temperature rise is 1°C/min. Or if - ΔV control is used, the maximum allowable voltage decrease is 10 mV/cell.

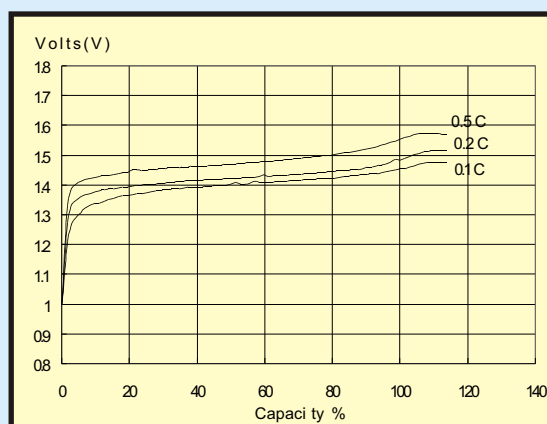
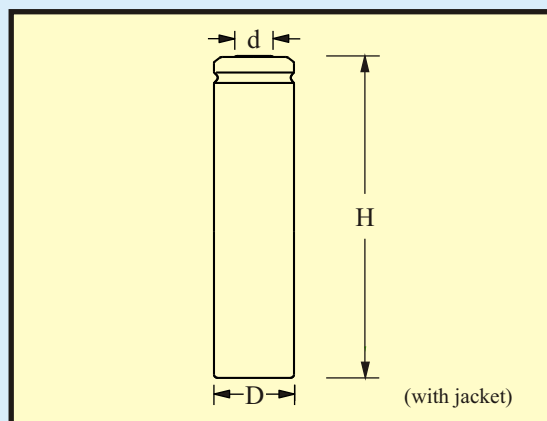
Charging current over 0.5C A is not recommended.

Storage:

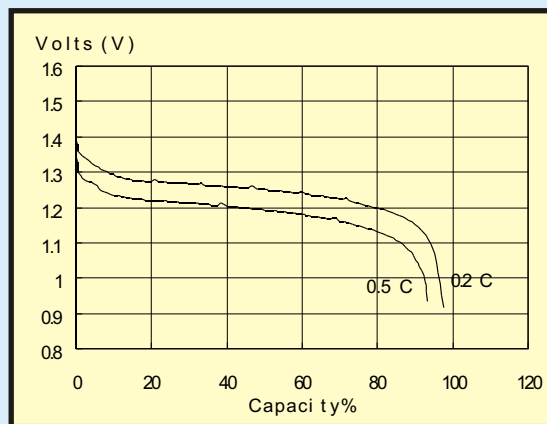
1) Storage Temperature..... -10°C to 45 °C

2) Remain trace of charged capacity for prolonged period of storage.

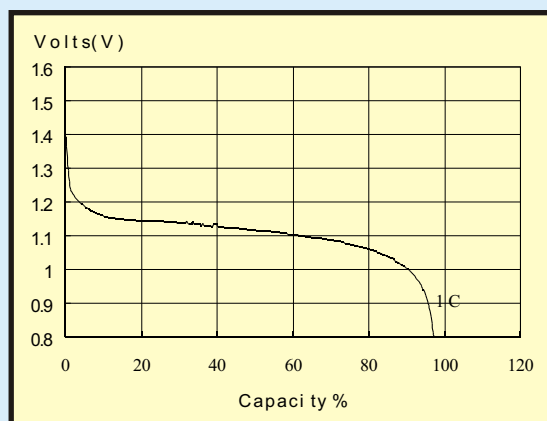
3) Slow recharging of stored batteries for every 3 months.



0.2C, 0.5C & 1C Rate Charging Curves



0.2C & 0.5C Rate Discharging Curve



1C Rate Discharging Curves