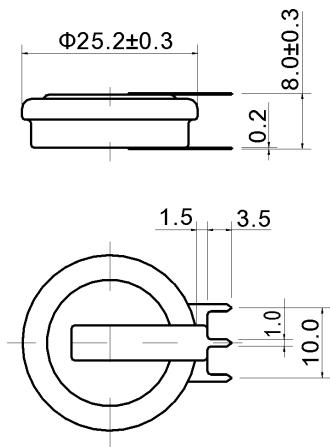
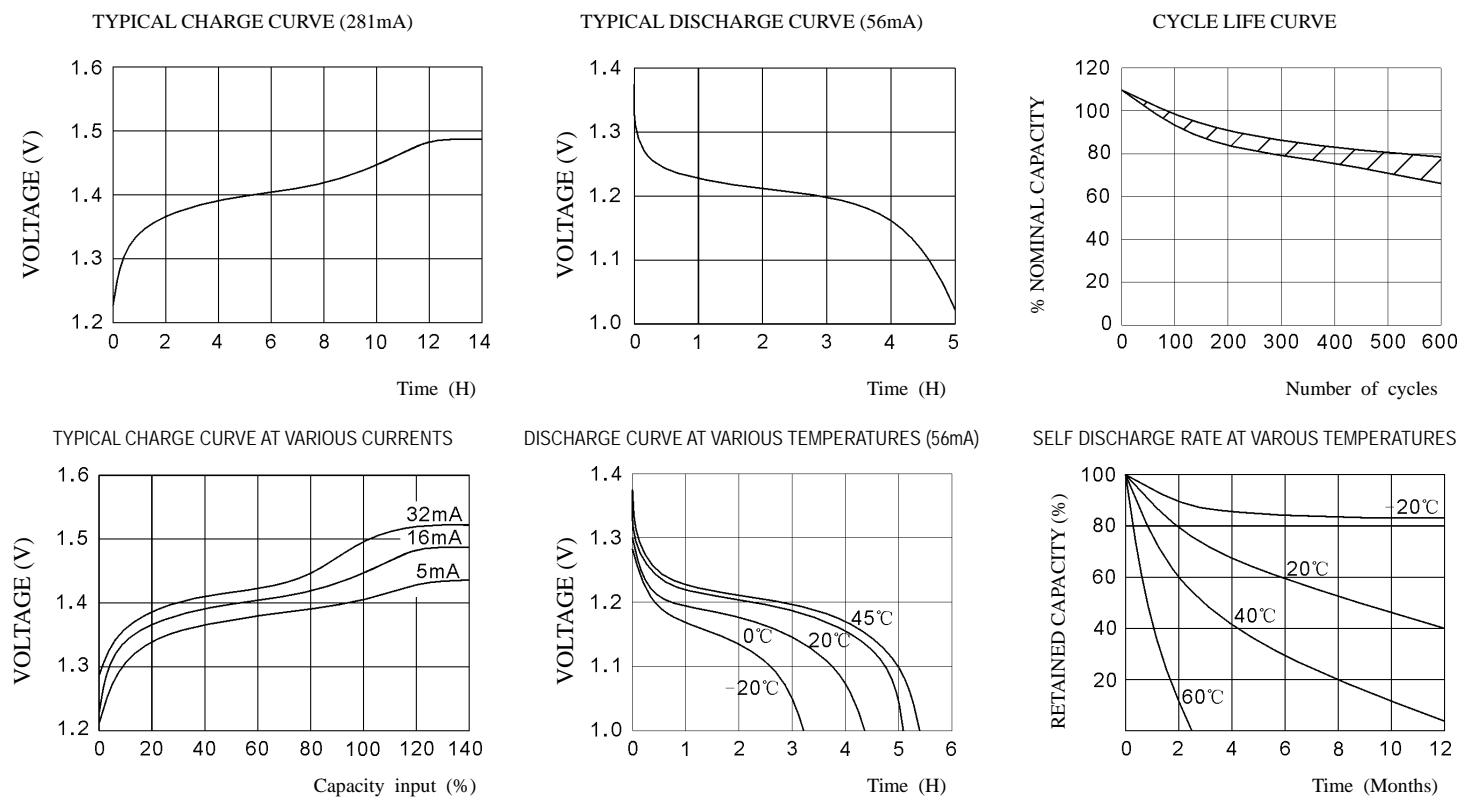


# Specification of 250H 1.2V with pin button NI-MH battery

## 1. BATTERY DRAWING (Unit: mm)



## 2. MAIN PERFORMANCE:



### **3. SPECIFICATION:**

#### **1. APPLICATION**

This specification applies to the Ni-MH batteries  
Model: 250H

#### **2. CELL AND TYPE**

- 2.1 Cell : Sealed Ni-MH Button Cell
- 2.2 Type : Button type
- 2.3 Size type : 1.2V

#### **3. RATINGS**

- 3.1 Nominal voltage : 1.2V
- 3.2 Nominal capacity : 280mAh
- 3.3 Typical weight : 12g
- 3.4 Standard charge : 28mA × 14hours
- 3.5 Rapid charge : 58mA × 6hours
- Trickle current : 8.4mA
- 3.6 Discharge cut-off voltage: 1.0V
- 3.7 Temperature range for operation (Humidity: Max.85%)

Standard charge 0 ~ +45°C  
Rapid charge +10 ~ +45°C  
Trickle charge 0 ~ +45°C  
Discharge -10 ~ +45°C

- 3.8 Temperature range for storage (Humidity: Max.85%)
- Within 2 years -20 ~ +35°C
- Within 6 months -20 ~ +45°C
- Within a month -20 ~ +45°C
- Within a week -20 ~ +55°C

#### **4. ASSEMBLY & DIMENSIONS**

Per attached drawing

#### **5. PERFORMANCE**

##### **5.1 TEST CONDITIONS**

The test is carried out with new batteries (within a month after delivery)  
ambient conditions

Temperature : +25 ± 5°C  
Humidity : 60 ± 20%

Note 1

Standard charge : 28mA × 14hours  
Standard discharge: 56mA to 1.0V

## 5.2 TEST METHOD & PERFORMANCE

Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	$\geq 280$	Standard Charge/discharge	Up to 3 cycles Are allowed
Open Circuit Voltage (OCV)	Voltage (V)	$\geq 1.3$	After 1 hour standard Charge	
Internal Impedance	$m\Omega /cell$	$\leq 800$	Upon fully charge (1KHz)	
High rate Discharge(140 mA)	Minute	$\geq 60$	Standard charge Before discharge	
Discharge Current	mA	140	Maximum continuous Discharge current	
Over charge		No leakage Not explosion	8.4mA charge one year	
Charge Retention	mAh	224	Standard charge; Storage: 28 days; Standard discharge	
Cycle Life	Cycle	$\geq 400$	IEC/CEI61951-2:2001. 4.4	
Leakage		No leakage nor Deformation	Fully charge at 28mA, Stand 14 days	

### Note 2 IEC/CEI61951-2:2001. 4.4 cycle life

Cycle number	Charge	Stand in charged Condition	Discharge
1	28mA for 16h	None	70mA for 2h20min
2-48	70mA for 3h10min	None	70mA for 2h20min
49	70mA for 3h10min	None	70mA to 1.0V/cell
50	28mA for 16h	1h to 4h	56mA to 1.0V/cell
1. Befor the endurance in cycles test, the cell shall be discharged at 56mA to a final voltage of 1.0V/cell.			
2.The following endurance test shall then be carried out, in an ambient temperature of $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ .			

## 5.3 Humidity

The battery shall not leak during the 14 days which it is submitted to the condition of a temperature of  $33 \pm 3^{\circ}\text{C}$  and a relative humidity of  $80 \pm 5\%$ .

## 6. OTHERS

- 6.1 We recommend you to set the cut-off voltage at 1.0V/cell.
- 6.2 If the cut-off voltage is above 1.1V/cell, the battery may be underutilized resulting insufficient use of the available capacity.
- 6.3 If it is below 1.0V/cell the battery may have discharge or reverse charge to the cell.

## 7. PRECAUTION

The cells shall be delivered in charged condition. Before testing or using, the cell shall be discharged at  $20 \pm 5^\circ\text{C}$  at a constant current of 56mA to a final voltage of 1.0V/cell.

7.1 Avoid throwing cells into a fire or attempting to disassemble them.

7.2 Avoid short circuiting the cells.

7.3 Avoid direct solidarity to cells.

7.4 Observe correct polarity when connecting.

7.5 Do not charge with more than our specified current.

7.6 Use cells only within the specified working temperature range.

7.7 Store cells in dry and cool place.