

NiCd BATTERY 1.2V 200Ah GN200

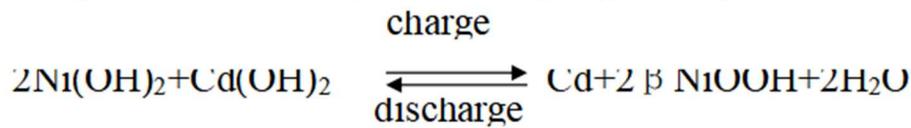


Description:

Nickel-cadmium pocket type alkaline storage batteries can be divided into low rate and medium rate based on their application (various discharge current). They can be operated at the temperature of $-40^{\circ}\text{C}\sim 50^{\circ}\text{C}$ after charging at normal charge rate at an ambient temperature of $25\pm 1^{\circ}\text{C}$. They are widely used in the electric equipment, tele-communications, lighting & UPS as the standby or DC power supply. They can also be used in oil motor or DC electric motor for starting, in transport vehicles and solar energy cells.

The positive and negative active materials are pocketed respectively in the perforated steel strips and pressed into the plates which forms into positive and negative electrodes. There is a separator between the positive and negative electrodes. The electrode groups are firmly mounted in the plastic container. There is an electrolyte filling hole in the cover, This hole is usually equipped with a plastic gas-plug. It can be opened at any time when it is needed to fill electrolyte. The plug can release the gas which generated inside the battery and also can keep the impurities and dust from entering the battery.

On charge, oxide reaction takes place in the positive electrode, and reduction occurs in the negative electrode. On discharge, the opposite reactions take place. The reactions of charge and discharge can be illustrated by the following simplified equation:



Charge:

Standard charge : 0.2C₅A for 8h

Float charge : 1.42—1.45V

Quick charge : Charge at 0.4C₅A for 2.5h, then charge at 0.2C₅A for 2.5h .

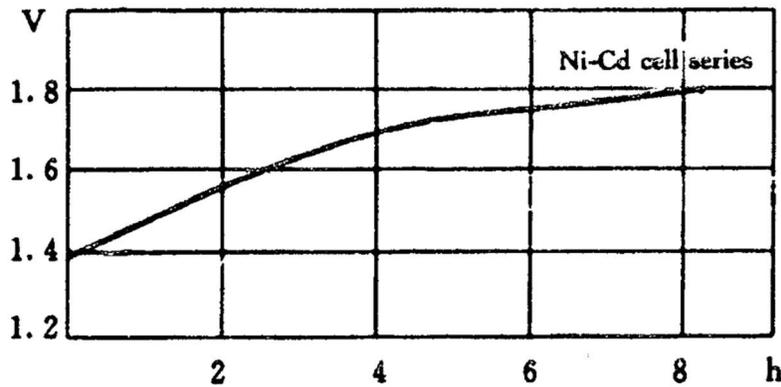


Fig 1. Charging curves of Ni-Cd pocket battery at 0.2C₅A

Discharge:

5.1 Discharge cut-off voltage 1.0V

5.2 At the ambient temperature of 20 ±5°C ,the battery shall be charged at 0.2C₅A for 8h ,then discharge .the discharge time shall meet the following.

Discharge rate	Cut off Voltage	Discharge time
0.2C ₅ A	1.0V	5h

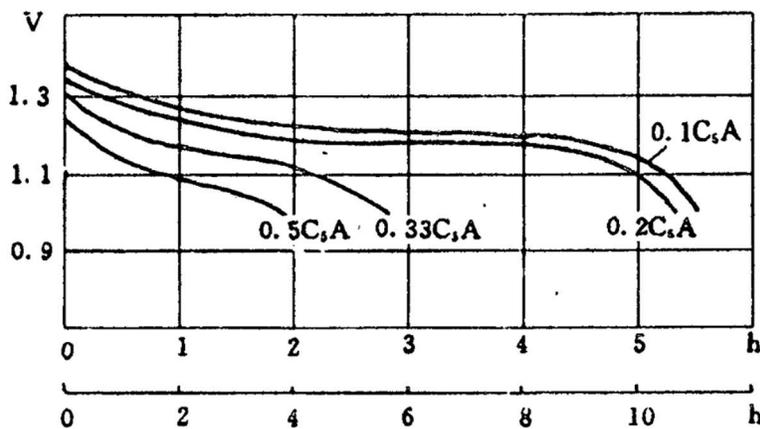


Fig 2. Various discharge curves of Ni-Cd battery at 20°C

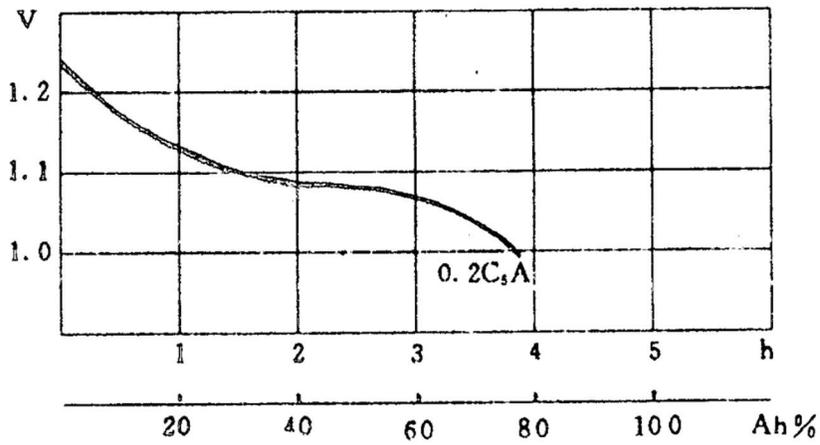


Fig 3 Low temperature(-18°C)discharge curve 0.2C5A of Ni-Cd battery series.

Battery dimensions:

Model	Overall dimensions (mm)			Max·weight (kg)	Container material
	L	W	H		
GN200	167	162	345	13.5	PP(ABS)