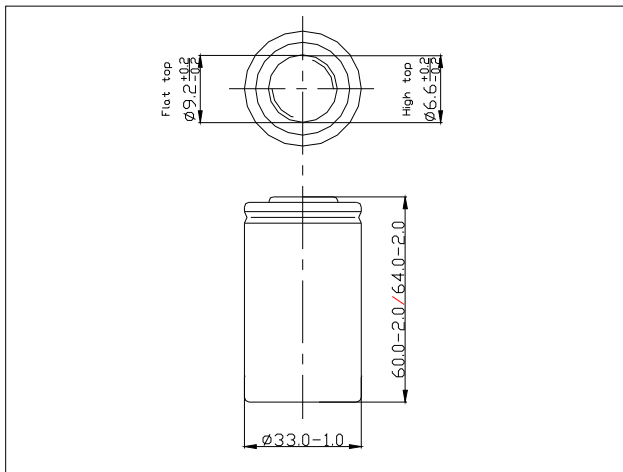


(Type) : GNYD5000mAh(F)

1 Specifications of single cell

Nominal voltage		1.2V	
Capacity		0.2C Discharge	1.0C Discharge
	Minimum	300min	54min
	Typical	310min	60min
Dimensions	Diameter	mm	
		33.0 <sup>-1.0</sup>	
	Height	60.0 <sup>-2.0</sup> Flat Top	
64.0 <sup>-2.0</sup> High Top			
Weight(Approximately)		gram	
		125.0	
Internal Impedance At 1000 Hz		15mΩ(Max) ( After Charge )	
Charge	Standa	500 mA(0.1C)×15hrs	
	Rapid	1500mA(0.3C)×4.5hrs	
Ambient temperature	Charge	Standard	°C
			0°C to 45°C
	Rapid	0°C to 40°C	
		Discharge	-20°C to 60°C
Storage	-20°C to 40°C		

PVC (Dimensions with PVC of single cell)

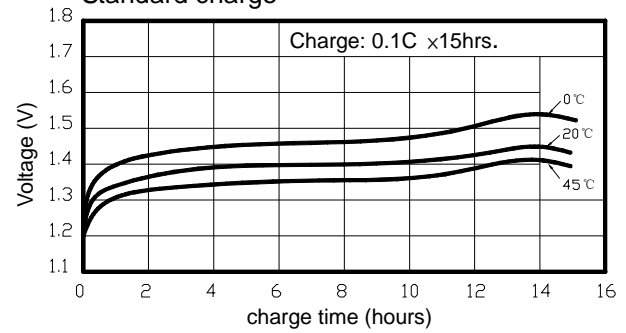


Note:

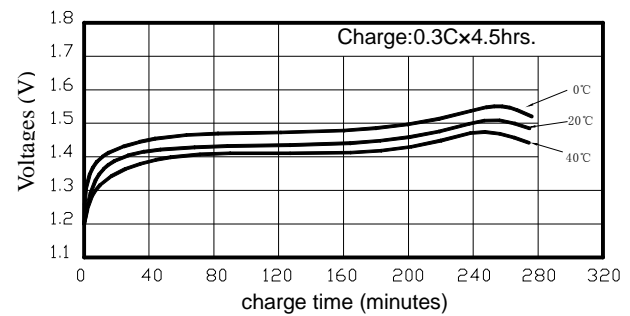
- 20°C 0.2C  
Nominal capacity, rated at 0.2C 20°C.
- Weight are for reference.
- IEC Standard according as IEC of test cycle life.

Typical characteristics

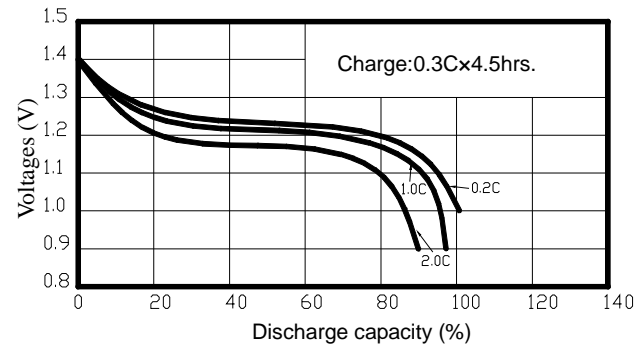
Standard charge



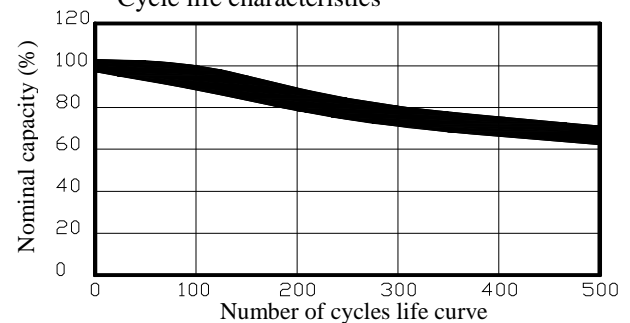
Rapid charge



Discharge characteristics

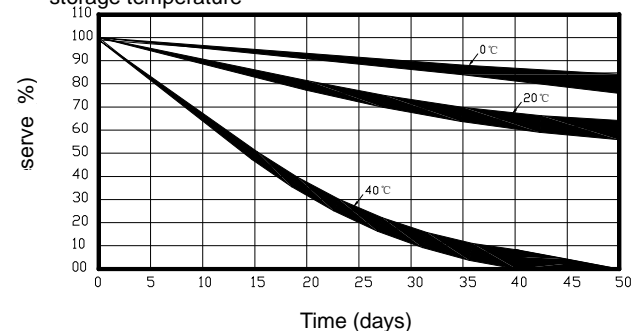


Cycle life characteristics



-Cd

Charge retention curves of Ni-Cd cylindrical cell at various storage temperature



## 1 PREFACE

The specification is suitable for the performance of NI-CD rechargeable battery produced by the JIANGSU HIGHSTAR BATTERY MANUFACTURING CO., LTD.

## 2 MODEL

GNVD5000mAh(F) 1.2V

## 3 APPEARANCE

There shall be no such details as discoloration or electrolyte leakage or 0 voltage.

## 4 RATINGS

2

Description	Unit	Specification	Condition
Nominal Voltage	V	1.2	Unit cell
Typical Capacity	min	310	Standard Charge/Discharge
Nominal Capacity	mAh	5000	Standard Charge/Discharge
Minimum Capacity	min	300	Standard Charge/ Discharge
Standard Charge	mA	500(0.1C)	Ta=0~45°C (see note 1)
	hour	15	
Fast Charge	mA	1000 (0.2C)~2500(0.5C) with charge termination control	-ΔV=8~10mV/cell Timer cutoff=120% input capacity Temp. cutoff=45°C dT/dt=0.8°C/min(0.5C)
	hour	6.5 approx.(0.2C) 2.4 approx.(0.5C)	
Trickle Charge	mA	170(0.03C)~250(0.05C)	Ta=0~50°C (see note 1)
Discharge Cut-off Voltage	V	1.0	Unit cell
Maximum Discharging Current	A	10(2.0C)	Ta =0~50°C 0.9V cut off
Storage Temperature	°C	-20~+25(within 1 year) -20~+30(within 3 month) -20~+40(within 1 month) -20~+50(within 1 week)	*
Typical Weight	g	125.0 approx	*