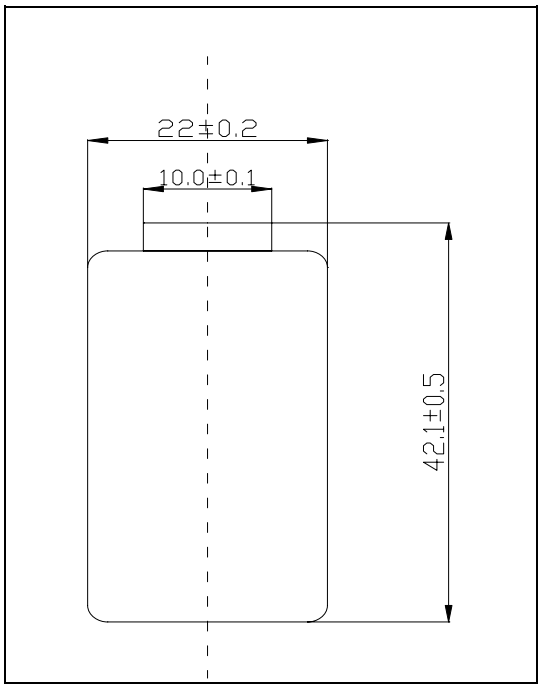
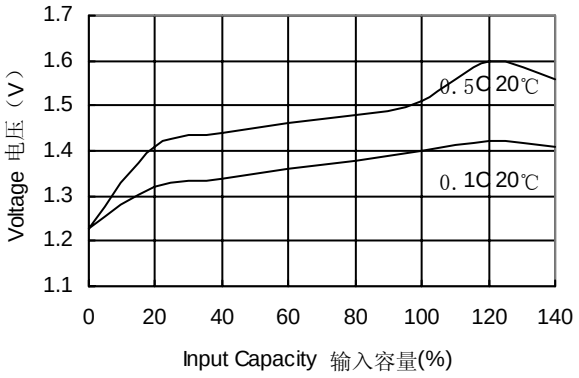
MODEL No: SC2000P **Description:**2000mAh SC SIZE Ni-Cd



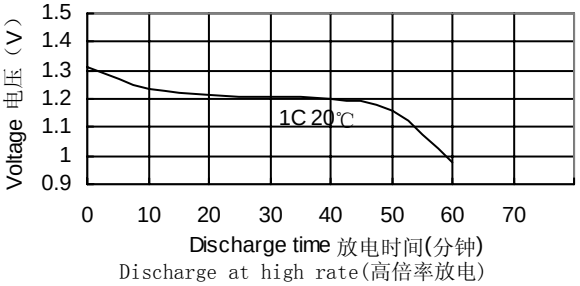
Specification

Nominal Capacity 额定容量		2000 mAh
Nominal Voltage 额定电压		1.2 V
Charge current 充电电流	Standard 标准	200mA
	Quick 快充	600mA
	Fast 急充	1000mAh
Charge time 充电时间	Standard 标准	14~16 Hrs
	Quick 快充	4.0 Hrs
	Fast 急充	2.4Hrs
Ambient Temperature 使用温度 — Charge 充电	Standard 标准	0℃~35℃
	Quick 快充	10℃~35℃
Discharge 放电		-30℃~60℃
Storage 储存		-30℃~35℃
Internal Impedance(mΩ) (After Charge)充电后内阻		Max≤12
Weight 重量		47.1g

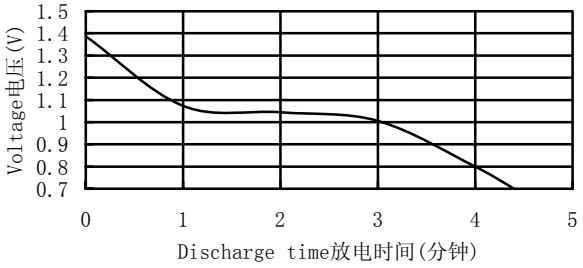
Charge(充 电)



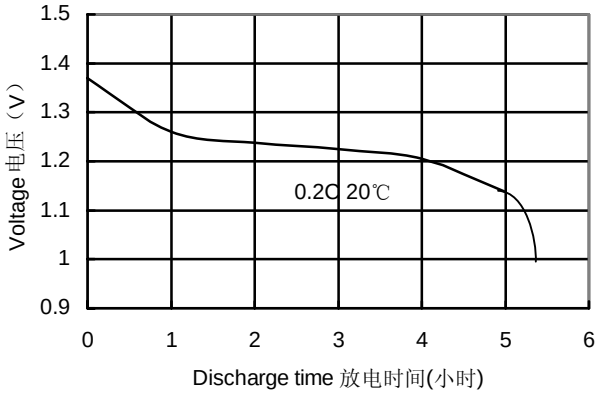
Discharge at high rate(高倍率放电)



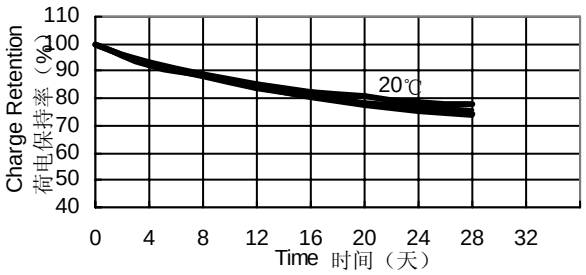
Discharge at high rate(高倍率放电)



Discharge at low rate(低倍率放电)



Charge Retention(荷电保持能力)



1、 APPLICATION

This specification governs the performance of the following LND Nickel-Cadmium Cylindrical cell 。

LND Model：SC2000P

Cell Size： SC ($\phi 22.1^{\pm 0.2} \times 42.1^{\pm 0.5}$)

2、 DATA OF STACK UP BATTERIES

All data involves voltage and weight to stack-up battery are equal to the value of unit cell times the number of unit cell which consisted in the stack-up batteries

Example: Stack-up battery consisting three unit cells

Nominal voltage of unit cell=1.2V

Nominal voltage of stack-up batteries=1.2V×3=3.6V

3、 RATINGS

Description	Unit	Specification	Conditions
Nominal Voltage	V/Cell	1.2	
Nominal Capacity	mAh	2000	Standard Charge/Discharge
Standard Charge	mA	200(0.1C)	T_1= 0~35℃(see Note1)
	Hour	14~16	
Fast Charge	mA	1000(0.5C)	-△V=0-5mV/Cell or Timer CutOff=120 % nominal capacity or Temp.Cutoff=55℃ , T_1= 10~35℃
	hour	2.4approx (see Note 2)	
Trickle Charge	mA	(0.05C)	T_1= 0~35℃
Standard discharge	mA	400(0.2C)	T_2= -30~60℃ Humidity：Max.85%
Discharge Cut-off Voltage	V/Cell	1.0	
Storage Temperature	℃	-30~35	Discharged state、Humidity、Max.85%
Typical Weight	Gram	47.1	unit cell

3、 PERFORMANCE

Unless otherwise stated, tests should be done within one month of delivery under the following conditions:

Ambient Temperature, T：20±5℃

Relative Humidity： 65±20%

Notes： Standard Charge/Discharge Conditions：

Charge： 200mA(0.1C)×14 hours

Discharge： 400mA(0.2C) to 1.0V/Cell

Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	≥2000	Standard Charge Discharge	up to 3 cycles are allowed
Open Circuit Voltage(OCV)	V/ Cell	≥1.25	Within l hour after standard Charge	
Internal Impedance	mΩ/ Cell	≤12	Upon fully charge(lKHz)	
High Rate Discharge(1C)	minute	≥54	Standard Charge, l hour rest Before discharge by 2000mA (1C)to 1.0V/cell	up to 3 cycles are allowed
Charge Retention	mAh	≥1400(70%)	Standard Charge, Storage：28 days, Standard Discharge	
IEC Cycle Life	Cycle	≥500	IEC61951-1（2003）7.4.1.1	(see Note 3)
Leakage		No leakage nor deformation	Fully charged at 1000mA(0.5C) For 2.4 hour Stand for 14 days	
Maximum continuous discharge current	A	20(10C)		
Maximum momentary discharge current	A	30		

4、 CONFIGURATION,DIMENSIONS AND MARKINGS

Please refer to the attached drawing.

5、 EXTERNAL APPEARANCE

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage nor deformation.

6、 WARRANTY

One year limited warranty against workmanship and material defects.

7、 CAUTION

⑴Reverse charging is not acceptable.

⑵Charge before use. The cells/batteries are delivered in an uncharged state.

⑶Do not charge/discharge with more than our specified current.

⑷Do not short circuit the cell/battery Permanent damage to the cell/battery may result.

⑸Do not incinerate or mutilate the cell/battery.

⑹Do not solder directly to the cell/battery.

⑺the life expectancy may be reduced if the cell/battery is subjected adverse conditions like: extreme temperature, deep cycling, excessive overcharge/ over-discharge.

⑻store the cell/battery uncharged in a cool dry place. Always discharge batteries before bulk storage or shipment.

Notes：

⑴ T_1: Ambient Temperature.

⑵ Approximate charge time from discharged state, for reference only.

⑶ IEC61951-1（2003）7.4.1.1 Cycle Life:

Cycle No.	Charge	Rest	Discharge
1	0.1C×16h	None	0.25C×2h20min
2-48	0.25C×3h10min	None	0.25×2h20min
49	0.25C×3h10min	None	0.25C to 1.0V/ cell
50	0.1C×16h	1-4h	0.2C to 1.0V/ cell
Cycles l to so shall be repeated until the discharge duration on any 50th Cycle becomes less than 3 h.			