



1. Designation:

Ni-CD KR1800SC

2. Chemical System:

Nickel-Cadmium Cylindrical cell

3. Nominal Voltage:

1.2 V

4. Approximate Weight:

46.0 g

5. Dimensions & Structure :

Dimensions & structure of the battery are shown in the attached Fig. 1.

6. Jacket :

PVCJacket

7. Characteristics:

Characteristics of the battery are shown in the following table.

◇ T₁: Ambient Temperature.

Description	Unit	Specification	Conditions
Nominal Voltage	V/Cell	1.2	Unit cell or stack-up batteries
Nominal Capacity	mAh	1800	Standard Charge/Discharge
Standard Charge	mA	180(0.1C)	T ₁ = 0~50 (see Note1)
	Hour	14~16	
Fast Charge	mA	900(0.5C)	- V=0-10mV/Cell or Timer Cut Off=120 % nominal capacity or Temp. Cut off=55 ,T ₁ = 10~50
	Hour	2.4approx (see Note 2)	
Trickle Charge	mA	(0.05C)~(0.1C)	T ₁ = 0~50
Standard discharge	mA	360(0.2C)	T ₁ = -30~60 Humidity : Max.85%
Discharge Cut-off Voltage	V/Cell	1.0	
Storage Temperature		-30~65	Discharged state、 Humidity、 Max.85%
Typical Weight	Gram	46	Unit cell



8. Performance

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

Ambient Temperature, T_1 : 20 ± 5

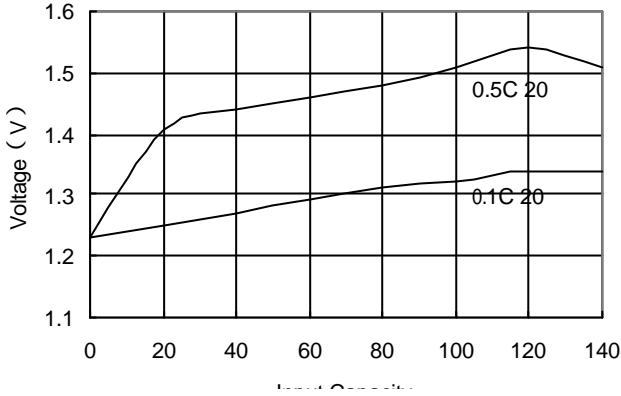
Relative Humidity : $65 \pm 20\%$

Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	1800	Standard Charge /Discharge	Up to 3 cycles are allowed
Open Circuit Voltage (OCV)	V/ Cell	1.25	Within 1 hour after standard Charge	
Internal Impedance	m /Cell	10.5	Upon fully charge (1KHz)	
High Rate Discharge (1C)	Minute	54	Standard Charge, 1 hour rest Before discharge by 1800mA(1C) to 1.0V/cell	Up to 3 cycles are allowed
Overcharge	/	No leakage nor explosion	180mA(0.1C) Charge 28 days	
Charge Retention	mAh	1260(70%)	Standard Charge, Storage : 28 days, Standard Discharge	
IEC Cycle Life	Cycle	500	IEC285 (1993) 4.4.1	(See Note 3)
Accelerated Cycle Life	Cycle	400	Charge: 900mA(0.5C) Discharge: 1800mA(1C) to 1.0V/Cell, end-of: 80% nominal capacity	Cycling charging cut-off condition : - V=0~10mV/ cell or Timer cut off=110% Nominal capacity input or Temp. cut off=55
Leakage		No leakage nor deformation	Fully charged at 900mA(0.5C) For 2.4hour Stand for 14 days	

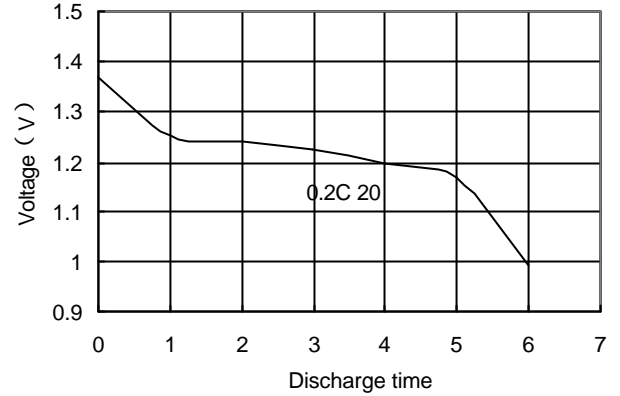


9. Discharge Curve :

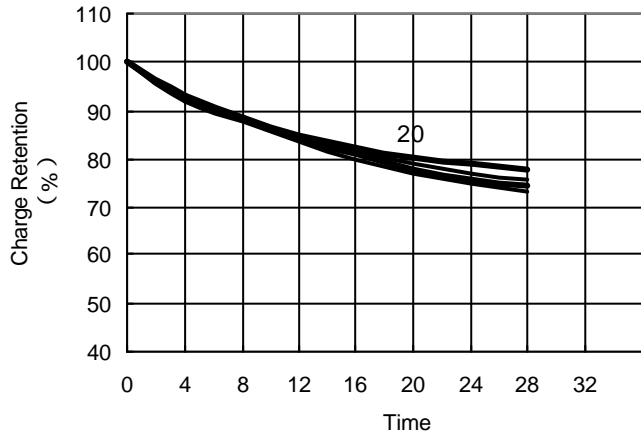
Charge



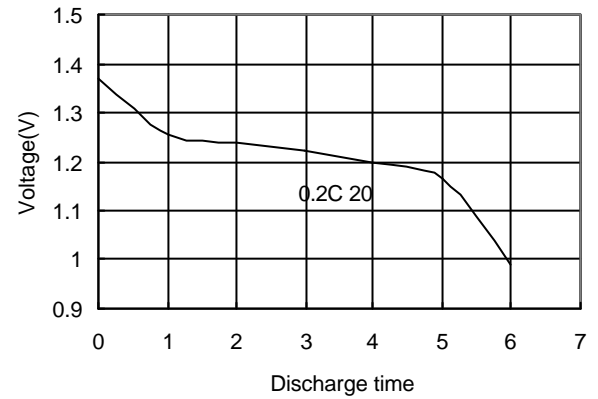
Discharge at low rate



Charge Retention



Discharge at low rate



10. Markings on Product :

- (1) Ni-CD KR1800SC
- (2) Brand: Novacell
- (3) Polarity: "+" and "-"
- (4) Other specified markings

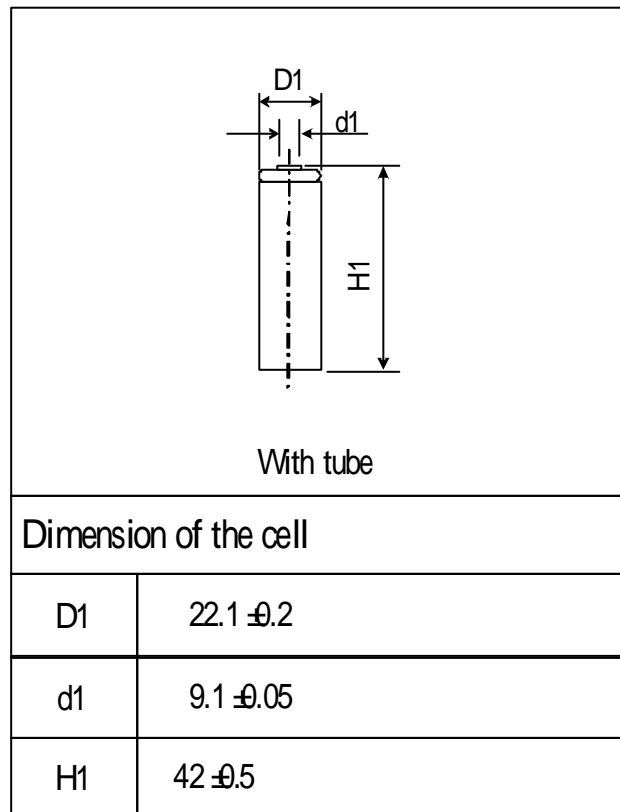


11. Caution for Use :

- ✧ Reverse charging is not acceptable.
- ✧ Charge before use. The cells/batteries are delivered in an uncharged state.
- ✧ Do not charge/discharge with more than our specified current.
- ✧ Do not short circuit the cell/battery Permanent damage to the cell/battery may result.
- ✧ Do not incinerate or mutilate the cell/battery.
- ✧ Do not solder directly to the cell/battery.
- ✧ The life expectancy may be reduced if the cell/battery is subjected adverse conditions like: extreme temperature, deep cycling, and excessive overcharge/ over-discharge.
- ✧ Store the cell/battery uncharged in a cool dry place. Always discharge batteries before bulk storage or shipment.

12. Warranty : 12 months shelf life after delivery.

Fig. 1





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TECHNICAL SPECIFICATION

NICKEL-CADMIUM RECHARGEABLE BATTERY

Ni-CD KR1800SC

Date FEB. 01, 2006

Sign GLOSO CO., LTD