



1. Designation:

Ni-CD KR700AA (P)

2. Chemical System:

Nickel-Cadmium Cylindrical cell

3. Nominal Voltage:

1.2 V

4. Approximate Weight:

22.0 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
Nominal Capacity	mAh	700	Standard Charge/Discharge
Standard Charge	mA	70(0.1C)	T ₁ = 0~50 (see Note1)
	Hour	14~16	
Fast Charge	mA	700(1C)	- V=0-5mV/Cell or Timer Cut Off=120 % nominal capacity or Temp. Cut off=55 ,T ₁ = 10~50
	hour	1.2approx (see Note 2)	
Trickle Charge	mA	(0.05C)~(0.1C)	T ₁ = 0~50
Standard discharge	mA	140(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	22	



8. Performance

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

Ambient Temperature, T_1 : 20 ± 5

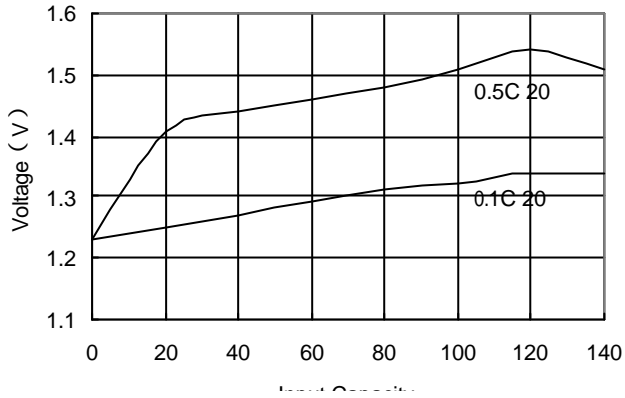
Relative Humidity : $65 \pm 20\%$

Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	700	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	27	Upon fully charge (1KHz)	
High Rate Discharge (1C)	Minute	54	Standard Charge, 1 hour rest Before discharge by 700mA(1C) to 1.0V/cell	Up to 3 cycles are allowed
Overcharge	/	No leakage nor explosion	70mA(0.1C) Charge 28 days	
Charge Retention	mAh	490(70%)	Standard Charge, Storage : 28 days, Standard Discharge	
IEC Cycle Life	Cycle	500	IEC285 (1993) 4.4.1	(See Note 3)
Leakage		No leakage nor deformation	Fully charged at 700mA(1C) for 1.2hour Stand for 14 days	
Maximum continuous discharge current	A	7(10C)		

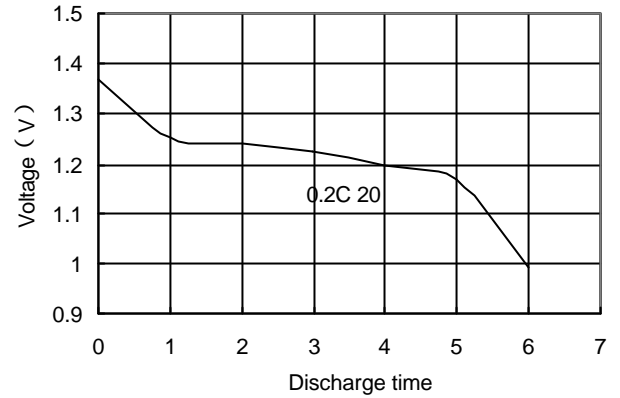


9. Discharge Curve :

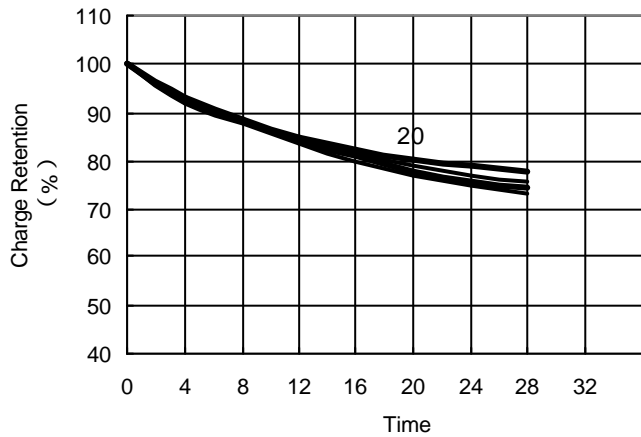
Charge



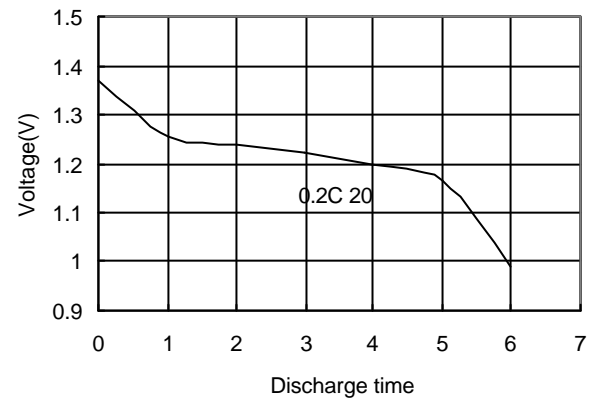
Discharge at low rate



Charge Retention



Discharge at low rate



10. Markings on Product :

- (1) Ni-CD KR 700AA (P)
- (2) Brand: Novacell
- (3) Polarity: "+" and "-"
- (4) Other specified markings

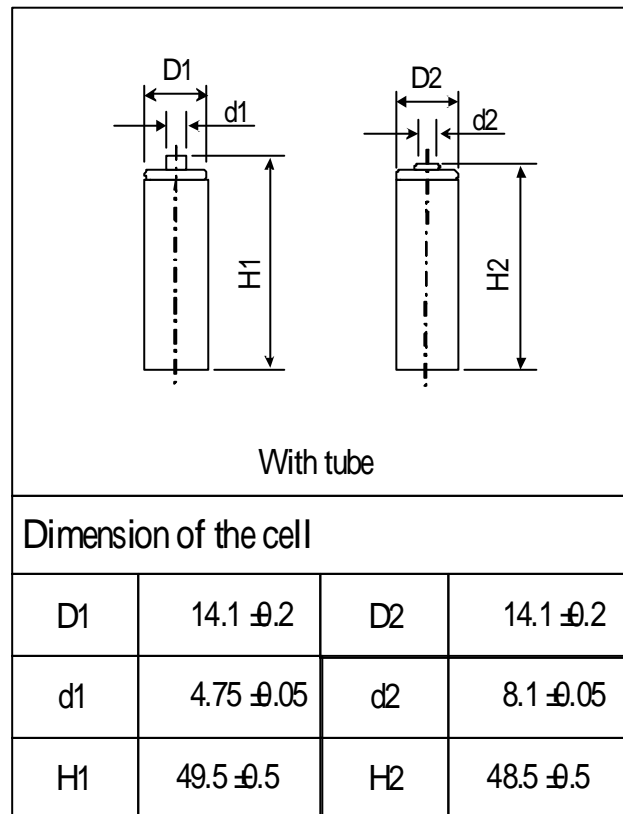


11. Caution for Use :

- ✧ 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 KR700 AA (P)

Date FEB. 01, 2006

Sign GLOSO CO., LTD