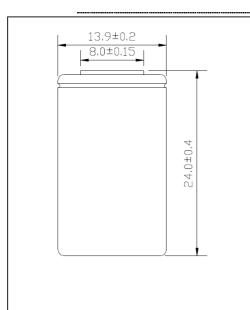
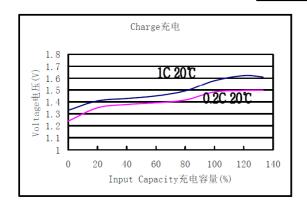


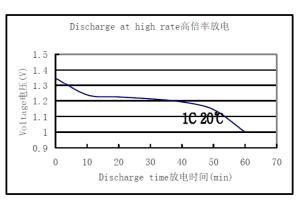
## SPECIFICATIONS Sealed Rechargeable Nickel Cadmium Ni-CD 300mAh 1/2AA

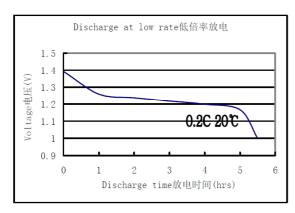
MODEL No: NC12AA300 Description: 300mAh 1/2AA SIZE Ni-Cd

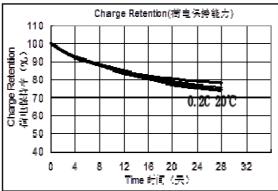


Specification				
Nominal Capacity			300 mAh	
Nominal Voltage			1.2V	
		Standard	30mA	
Charge co	urrent	Quick	90mA	
		Fast	300mA	
		Standard	14~16 Hrs	
Charge	time	Quick	4.0 Hrs	
		Fast	1.3Hrs	
		Standard	0°C~35°C	
	Charge	Quick	10°C~35°C	
Ambient		Fast	10°C~35°C	
Temperature	Discharge		-30°C∼60°C	
	Storage		-30°C~35°C	
Internal Impedance(m $\Omega$ ) (Upon fully charge)			Max≤45	
Weight			9.1g	









Nc12aa300\_spec\_17 P.1/3

Notice: Unless duly signed and stamped, the information (subject to change without prior notice) contained herein this document is for reference only and should not be used as a criterion for product guarantee or warranty.

### **SPECIFICATIONS Sealed Rechargeable Nickel Cadmium** Ni-CD 300mAh 1/2AA

### 2. PERFORMANCE

Unless otherwise stated, tests should be done within one month of delivery under the following conditions: Ambient Temperature: T:  $20\pm5^{\circ}$ C Relative Humidity:  $65\pm20\%$ 

Test Item		Test Co	onditions		Requirements
(1) Standard Charge	Charge is conducted continuously for 16 hours at the constant current of 30mA (0.1C) after pre-discharge at the constant current of 60mA (0.2C) up to a cut-off voltage of 1.0V				
(2) Open-circuit Voltage		ween terminals of the or	-	tery specified in item (1)	≥1.25V
(3) Capacity (0.2C)	60mA (0 minutes.	0.2C) up to a cut-off	voltage of oesn't reac	item (1) is measured at f 1.0V after rest for 15 h the specified value, the three times in total.	≥300mAh
(4) High rate discharge(1C)	Discharge measu lest fo specifi	time of the charged red at 300mA (1C) or 15 minutes. If the	battery sj up to a cut- discharge	pecified in item (1) is off voltage of 1.0V after time doesn't reach the out further twice, up to	≥54minutes
(5) Fast charge (1C)	Charge:300mA(1C)×1.3hours (charging Cut off =- $\triangle$ V=5~10mV/cell or Temp.Cut off=50°C)				
(6) Trickle charge current	9.9mA (0.0	33C)~15mA (0.05C)			
(6) Charge retention	1 .	•	•	item (1) is measured at after rest for 28 days at	≥70%
(7) IEC Cycle life	Cycle No	Charge	Rest	Discharge	≥500
(IEC61951-1 (2003) 7.4.1.1)	1	0.1C×16h 0.25C×190min 0.25C×190min 0.1C×16h to so shall be repeated ecomes less than 3h	None None None 1-4h until the d	0.25C×140min 0.25C×140min 0.25C to 1.0v 0.2C to 1.0v ischarge duration on any	
(8) Accelerated cycle life	Charge: 30 V=5~10mV	00mA (1C) ×1.3 h	f=50°C) ;I	narging Cut off =- △ Discharge: 300mA (1C)	≥400
(9) Safety valve operation		111 25 117 1 1191		s at a constant current of t current of 60mA (0.2C)	Leakage, No explode or disrupt

# SPECIFICATIONS Sealed Rechargeable Nickel Cadmium Ni-CD 300mAh 1/2AA

(10) Leakage	Fully charged at 150mA ( 0.5C ) for 2.4 hour stand for 14 days	No leakage nor deformation
(12) Vibration Resistance	Charge the battery 0.1C 16hrs,then leave for 24hrs,check Battery before/after vibration, Amplitude 1.5mm Vibration 600 CPM Any direction for 60mins.	Change of voltage should be under 0.02V/cell,Chang e of impedance should be under 5 milli-ohm/cell
(13) Impact Resistance	Charge the battery 0.1C 16hrs Then leave for 24hrs,check bat-before/after dropped, Height 50cm Wooden board(thickness 30mm) Direction not specified, 3 times.	Change of voltage should be under 0.02V/cell Change of impedance should be under
		5 milli-ohm/cell

#### 3. EXTERNAL APPEARANCE

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

#### 4. CAUTION

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