# **Product Specification**

Product Model:	Nickel-Metal Hydride Battery
Product Type:	J-AAA800E
Draw up:	Technical Department
Date:	2015-3-4



Add:No.83 YongSheng Road,Baisha Ind.Dev.,JiangMen City,GuangDong Province,P.R.China Tel:86-750-3534405 Fax:86-750-3534305

Web address: <a href="http://www.jjjbattery.com">http://www.jjjbattery.com</a> <a href="mail:jjj@jjjbattery.com">E-Mail:jjj@jjjbattery.com</a>



Document Title: Product Specification of Ni-MH J-AAA800E

#### 1, SCOPE

This specification governs the performance of the following **JJJ** Nickel-Metal Hydride cylindrical cell and its stack-up battery.

Revision: 4.7

JJJ Model: AAA 800E

Cell Size: AAAcusp(10.1±0.1×44.0±0.5)mm

AAAcrew cut(10.1±0.1×44.0±0.5)mm

#### 2 , DATA OF STACK UP BATTERIES

All data involve voltage and weight of stack-up batteries are equal to the value of unit cell multiplied by the number of unit cell which consisted in the stack-up batteries

Example: Stack-up batteries consisting three unit cells

Nominal voltage of unit cell=1.2V

Nominal voltage of stack-up batteries = $1.2V \times 3=3.6V$ 

#### 3, RATINGS

Description	Unit	Specification	Condition	
Nominal Voltage	V/cell	1.2	Unit cell or stack-up batteries	
Minimum Capacity	mAh	750	Standard Charge/Discharge	
Nominal Capacity	mAh	800	Standard Charge/Disch	arge
Standard Charge	mA	80 (0.1C)	$T_1=20\pm5$ °C (See Note 1)	
	hour	16		
	mA	160 (0.2C)	$\Delta$ V=0~5mV/cell , Timer Cutoff=120% nominal capacity , Temp.Cutoff=55 $^{\circ}$ C , dT/dt=0.8 $^{\circ}$ C/min, T <sub>1</sub> =20±5 $^{\circ}$ C	
Fast Charge	hour	6 approx (See Note 2)		
Trickle Charge	mA	(0.03C)~(0.05C)	T₁=20±5°C	
Standard discharge	mA	160 (0.2C)	$T_1 = 20 \pm 5$ °C Humidity:	Max.85%
Discharge Cut-off Voltage	V/cell	1.0		
Storage Temperature	$^{\circ}$	-20~25	Within 1 year	
		-20~35	Within 9 months	
Typical Weight	Gram	13.0	unit cell	

JJJ reserves the right to alter or amend the design, model and specification without prior notice.



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#### 4、 PERFORMANCE

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

Revision: 4.7

Ambient Temperature :  $20\pm5$  °C Relative Humidity :  $65\pm20$ %

Notes: Standard Charge/Discharge conditions:

Charge:  $80 \text{ mA}(0.1\text{C}) \times 16 \text{ hours}$ Discharge: 160 mA(0.2C) to 1.0V/cell

Test	Unit	Specification	Condition	Remarks
Capacity	mAh	≥ 750	Standard Charge/ Discharge	up to 3 cycles are allowed
Open Circuit Voltage(OCV)	V	≥ 1.25	Within I hour after standard charge	
Internal Impedance	mΩ	≤ 40	Upon fully charged(lKHz)	
High Rate Discharge(1C)	min	≥ 51	Standard Charge, I hour rest before discharge by 1C to 1.0V/cell	up to 3 cycles are allowed
Charge Retention	mAh	~ 680 (85%)	Standard Charge, Storage: 6 months, Standard Discharge	$T_1=20\pm5$ °C (See
		~ 600 (75%)	Standard Charge, Storage: 12 months, Standard Discharge	Note 1)
IEC Cycle Life	Cycle	≥500	IEC61951-2(2003)7.4.1.1	see Note 3
Leakage		No leakage nor deformation	Fully charged at: 80 mA for 48 hrs	
Vibration Resistance		Change of voltage should be less than 0.02V/cell,Change of impedance should be less than 5 milli-ohm/cell	Charge the battery at 0.1C for 14hrs,then leave for 24hrs,check battery before/after vibration,amplitude 1.5mm,vibration 3000 CPM,any direction for 60mins.	
Impact Resistance		Change of voltage should be less than 0.02V/cell,change of impedance should be less than 5 milli-ohm/cell	Charge the battery at 0.1C for 14hrs,then leave for 24hrs,check battery before/after dropped,height 50 cm wooden board(thickness 30mm)direction not specified,3 times.	

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5, CONFIGURATION, DIMENSIONS AND MARKINGS

Please refer to the attached drawing.

6, EXTERNAL APPEARANCE

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage or deformation.

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#### 7、WARRANTY

One year limited warranty against workmanship and material defects.

#### 8, 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 cells/batteries may result.
- [5]Do not incinerate or mutilate the cells/batteries.
- [6]Do not solder directly to the cells/batteries.
- [7] The expected life may be reduced if the cells/batteries are subjected to adverse conditions as: extreme temperature, deep cycling, excessive overcharge/ over-discharge.
- [8] Store the cells/batteries in a cool dry place. Always discharge batteries before packing.

#### Notes:

[1] T<sub>1</sub>: Ambient Temperature.

- [2] Approximate charge time from discharged state, for reference only.
- [3] IEC61951-2(2003)7.4.1.1 Cycle Life:

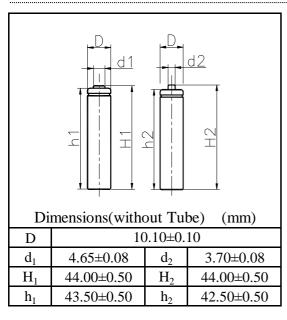
Cycle No.	Charge	Rest	Discharge
1	0.1C×16h	None	0.25C×2h20min
2-48	0.25C×3h10min	None	0.25C×2h20min
49	0.25C×3h10min	None	0.25C to 1.0V/cell
50	0.1C×16h	1-4h	0.2C to 1.0V/cell

Cycle 1 to 50 shall be repeated until the discharge duration on any 50th cycle becomes less than 3 h.

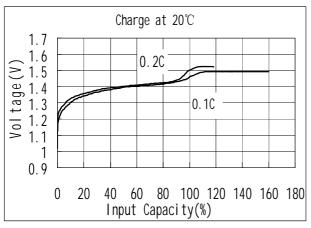
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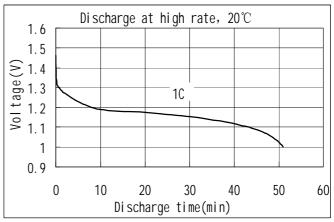
## JJJ Battery Co.,LTD.

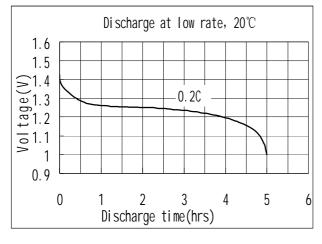
MODEL No: J-AAA800E Description: 800 mAh SIZE NI-MH AAA

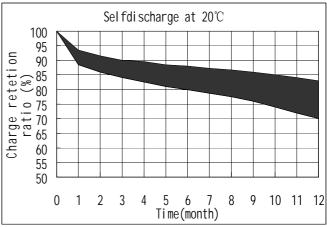


Specification			
Nominal Capacity			800 mAh
Nominal Voltage			1.2 V
Charge current		Standard	80 mA
		Fast	160 mA
Charge time		Standard	16 Hrs
		Fast	6 Hrs
Ambient Temperature	Charge	Standard	0°C~45°C
		Fast	10°C~45°C
	Discharge		-20℃~60℃
	Storage		-20℃~35℃
Internal Impedance(m $\Omega$ )			≤ 40
(After Charge)			< 40
Weight			13.0 g









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