

深圳市宇能达科技有限公司

EAST(SHENZHEN) TECHNOLOGY CO.,LTD

SEALED NICKEL METAL HYDRIDE RECHARGEABLE BATTERY

APPROVAL SHEET



Model: EU-AA900mAh

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电话 (TEL): 0755-86006961

传真 (FAX): 0755-86968868

网址 (NET): http://www.eunicell.com

邮箱 (Email):salesmanager@eunicell.com

1. Scope

This specification is suitable for the performance of following nickel-metal hydride cylindrical cell and its stack-up battery packs:

Model: EU-AA900mAh Flat Cap

Size: AA

The data involving nominal voltage and approximate weight of a battery pack shall be equal to the value of the unit cell multiplied by the number of unit cells in the battery pack.

Nominal voltage of unit cell = 1.2V

2.Performance and Test Methods

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

Ambient Temperature: $20 \pm 5 ^{\circ}\text{C}$.

Ambient Humidity: $65 \pm 20\%$.

Test Item	Test Conditions	Request
1. Standard Charge	Charge is conducted continuously for 16 hours at the constant current of 90mA after pre-discharge at the constant current of 180mA up to an cut-off voltage of 1.0V.	
2.Open-circuit Voltage	Voltage between terminals of the charged battery specified in item(1) is measured after rest for 1 hour.	≥1.25V
3.Capacity	Discharge time of the charged battery specified in item(1) is measured at 180mA up to an cut-off voltage of 1.0V after rest for 30 minutes. If the discharge time doesn't reach the specified value, the test may be carried out further, up to five times in total.	≥300 minutes

Test Item		Request					
4.Cycle Life	Cycles	Charge	Rest	Discharge			
	1	0.1CmA×16h	None	0.25CmA×140min	≥500 cycles		
	2-48	0.25CmA×190min	None	0.25CmA×140min			
	49	0.25CmA×190min	None	0.25CmA to 1.0V/Cell			
	50	0.1CmA×16h	1-4h	0.2CmA to 1.0V/Cell			
	Cycles 1						
	any 50th o						
	Note: IEC						
	0.1CmA						
5.Internal Resistance	The batter	≤40mΩ					
6.Over-	Charge is	No deformation					
charge	capacity to	and leakage					
7.Over- discharge	Forced di	No external deformation					
	1Ω after						
8.Self- discharge	The charg	≥180 minutes					
	20° C, and						
9.Humidity	The charg	No electrolyte					
	of relative	leakage					
10 C C (T7)	Forced dis	Not explode or					
10.Safety Valve	of 900mA	•					
Operation	0V.	disrupt. *					
11.Drop Test	The batter	Mechanically					
	oak board	and electrically					
	3 times.	normal					
Note: * Electrolyte leakage and deformation of battery are acceptable.							

3. Configuration, Dimensions and Markings

Please refer to the attached drawings.

4. General Characteristics

Please refer to the attached drawings.

5. Suggestions & Cautions:

- 5.1 The cut-off voltage is recommended at 1.0±0.1V.
- 5.2 Charge the batteries prior to use.
- 5.3 Don't solder directly to the battery.
- 5.4 Don't short circuit and reverse charge.
- 5.5 Do not dispose of in fire and keep away from damage.
- 5.6 Store the batteries uncharged in a cool and dry place.
- 5.7 The batteries' life may be reduced if they are subjected to adverse conditions such as: extreme temperature, deep cycling, excessive overcharge/discharge.

