



E&J TECHNOLOGY GROUP CO., LTD

Ni-MH Low Self-Discharge Battery Specification

Model Number: EJ50AA1500S

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Prepared	Checked	Approved	
Sara Jess		John	

E&J TECHNOLOGY GROUP CO., LTD

Tel:+86-755-23762949 Fax:+86-755-22635063 Website: http://www.enjbattery.com E-mail:<u>sales@ejtechgroup.com</u>



1、Scope

This specification is suitable for the performance of the E&J Ni-MH Low Self rechargeable battery.

2. Model

EJ50AA1500S

3.Appearance

There shall be no such defects as deformation, flaw, stain, discoloration or electrolyte leakage.

4.Nominal specification

Desription			Specification	
Model			EJ50AA1500S	
Size			AA	
	Diameter(mm)		14.5+0/-0.7	
Dimensions	Height(mm)		50.5+0/-1.5	
	Weight(g)		Approx. 22g	
No	Nominal Voltage(V)		1.2	
Non	Nominal capacity(mAh)		1500	
Inter	Internal Impedance(mΩ)		≤35	
Disch	Discharge Cut-off Voltage		1.0V	
	Charge	standard	0℃ to 40℃	
		fast	10 ℃ to 40 ℃	
Ambient	Discharge	9	-10℃ to 50℃	
temperature	Storage	<1 year	-10℃ to 30℃	
		<3 months	-10℃ to 40℃	
		The relative humidity should keep with in 65±20%		

5. Characteristics

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

- ♦ Ambient temperature 20±5℃
- Relative humidity
 65±20%
- ♦ Atmospheric pressure 960±100mbar

Accuracy of voltmeters and amperometers to be used in testing shall be equal to or better than the grade 0.5.



Test item			Condition	Specification	
1. Charge	Standard	Charge at 0.1C for 16 hours		Ta=0~40 ℃	
	Fast	Charge at 0.5C to -∆V=0~5mV		Ta=10~40℃	
	Trickle		(0.03C)-(0.05C)	Ta=0~40 ℃	
2. Discharge			At 0.2C to 1.0V		
3. Discharge cut-off voltage				1.0V	
4.Capacity (mAh)	Minimum	Standa	rd charge/discharge	1400	
	Typical	Standa	rd charge/discharge	1500	
5. Internal resistance		After fully charge,rest 1 hour, measured at 1000Hz		≤35mΩ	
6.Hight Rate Dicharge(0.5C)			rd charge 1hour rest Before rge by 0.5C to 1.0V	≥112minutes	
7. Self-Discharge		12mon ⁻ dischar	narged battery is stored for ths at 20℃. And the ge time is measured at rd discharge	Capacity retention≥75%	
8. Overcharge		150mA	(0.1C) charge 28 days	No leakage nor deformation	
9. High temperature test			at 40℃、50℃、60℃ for 2 hen charge/discharge	No leakage	
10. Low temperature test		Store at 0°C for 2 hours then charge/discharge		No leakage	
11. Short circuit test		Short circuit after fully charge		No explode	
12. Drop test		Free fall on the concerte from 1 meters after fully charged		No leakage No short-circuit	
13.Leakage test		standard charge stand for 14days		No leakage nor deformation	
14.Cycle life	Charge	Rest	Discharge	Capacity	
1	0.1C for 16h		0.25C for 2h20min	retention ≥60% after 500cycles	
2~48	0.25C for 3h10min		0.25C for 2h20min		
49	0.25C for 3h10min		0.2C to 1.0V		
50	0.1C for 16h	1-4h	0.2C to 1.0V		



6. Cautions in use

To ensure proper use of the battery please read the manual carefully before using it.

Handling

Do not expose to, dispose of the battery in fire.

Do not put the battery in a charger or equipment with wrong terminals connected.

Avoid shorting the battery.

Avoid excessive physical shock or vibration.

Do not disassemble or deform the battery.

Do not immerse in water.

Do not use the battery mixed with other different make, type, or model batteries. Keep out of the reach of children

• Storage

Cycle(charge and discharge)the battery every 6-9month to maintain cell/battery performance ,When being stored for an extended period of time

Store the battery in a cool, dry and well-ventilated area.

• Disposal

Regulations vary for different countries.

Dispose of in accordance with local regulations.

7. Note

Any other items which are not covered in this specification shall be agreed by both parties.





