

1. Preface

This specification is suitable for the performance of the WAMA Ni-MH rechargeable battery.

2. Model

NIMH-D 9500mah

3. Appearance

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

4. Nominal specification

I	Desription		Specification		
Model			NIMH-D9500		
Size			D		
	Dia	ameter(mm)	33.0+0/-1.0		
Dimensions	Н	leight(mm)	60.0+0/-2.0		
	,	Weight(g)	Approx.145g		
Nominal Voltage(V)			1.2		
Nominal capacity(mAh)			9500		
Internal Impedance(mΩ)			≤25		
Discharge Cut-off Voltage			1.0V		
	Charma	standard	0℃ to 40℃		
	Charge	fast	10 ℃ to 40℃		
Ambient	Ambient Disc		-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, the standard range of atmospheric conditions for test as follows:

	Ambient temperature	20±5 ℃
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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.

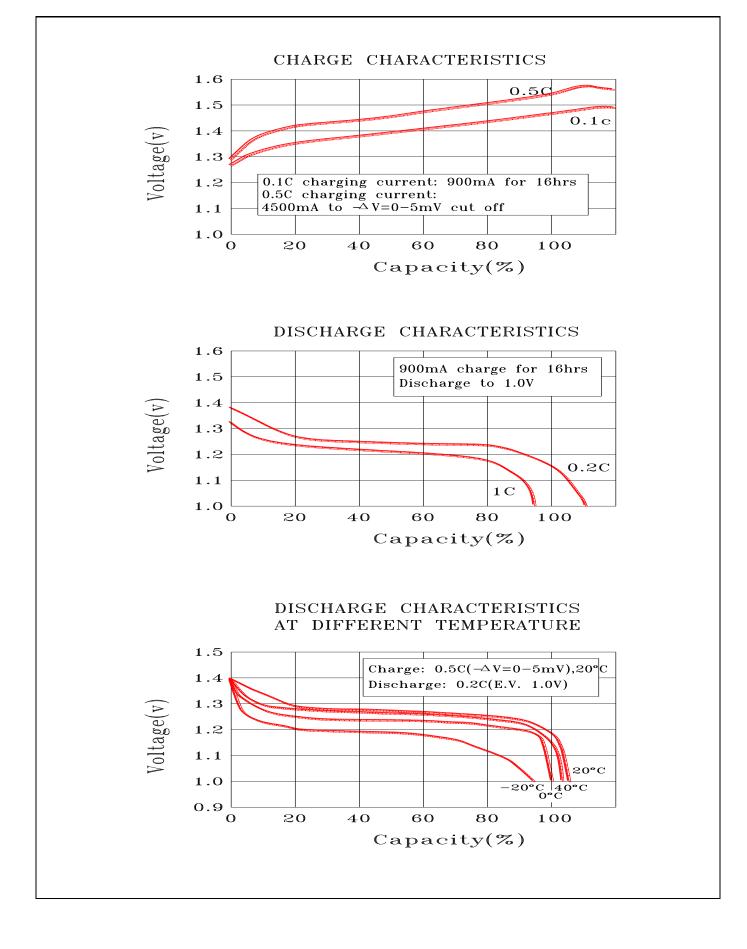


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Test item		Condition			Specification	
1. Charge	Standard	С	harge a	t 0.1C for 16 hours		
Fast		Charge at 0.5C to -∆ V=0-5mV				
2. Discharge cut-off voltage		At	0.2C		1.0V	
3.Capacity (mAh)	Minimum		andard	charge/discharge	8500	
(IIIAII)	Typical		andard	charge/discharge	9000	
4. Internal resistance		After fully charge,rest 1 hour, measured at 1000Hz			≤25mΩ	
5. Self-Discharge		The charged battery is stored for 28 days at 20℃±5℃. And the discharge time is measured at standard discharge			≥180minutes	
6. High temperature test		Store at 40℃、50℃、60℃ for 2 hours then charge/discharge			No leakage	
7. Low temperature test		Store at 0 $^\circ\!\mathrm{C}$ for 2 hours then charge/discharge			No leakage	
8. Short circuit test		Short circuit after fully charge		uit after fully charge	No explode	
9. Drop test			Free fall on the concerte from 1 meters after fully charged		No leakage No short-circuit	
10.Cycle life	Charge	1	Rest	Discharge	Capacity retention	
1	0.1C for 16h		0	0.25C for 2h20min	≥60% after 500cycles	
2~48	0.25C for 3h10min		0	0.25C for 2h20min		
49	0.25C for 3h10min		0	0.2C to 1.0V		
50	0.1C for 16h		1~4h	0.2C to 1.0V	1	



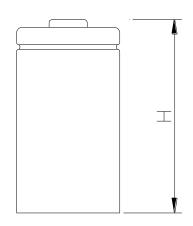
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7. Drawing:





Items	Description	Dimension		
D	Diameter	33.0+0/-1.0 mm		
Н	Height	60.0+0/-2.0mm		



8. 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

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

Disposal

Regulations vary for different countries.

Dispose of in accordance with local regulations.

9. Note

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