

NICKEL METAL HYDRIDE BATTERY NH-AA2200-T

BRIEF SPECIFICATION

Model:NH-AA2200-T Nominal Voltage: 1.2V Nominal Capacity: 2200mAh Weight: Approx. 31g Manufacturer: EEMB Co., Ltd.

Website: http://eemb.com



1, Preface

This specification is suitable for the performance of the Ni-MH rechargeable battery produced by EEMB CO.,LTD

2, Model

NH-AA2200-T

3, Appearance

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

4, Nominal Specification

D	escription	Specification		
	Model		NH-AA2200-T	
Size			AA	
	Diame	eter (mm)	14.2±0.3	
Dimensions	Heiç	ght (mm)	50.0±0.5	
	We	eight (g)	Approx.31g	
Nomi	nal Voltage ((V)	1.2	
Nominal Capacity (mAh)			2100	
Internal Impedance (m Ω)			≤30	
Discharg	e Cut-off Vo	ltage	1.0V	
	Charge	standard	0°C to 40°C	
Ambient temperature		fast	10°C to 40°C	
	Discharge		-10°C to 50°C	
	Storage	<1 year	-10°C to 30°C	
		<3 months	-10°C to 40°C	
		The relative	numidity should keep with in 65 \pm 20%.	

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5, Characteristics

Unless otherwise specified, the standard range of atmospheric conditions for test as follows:

Ambient temperature: $20\pm5^{\circ}\text{C}$ Relative humidity: $65\pm20\%$ Atmospheric pressure: 960 ± 100 mbar

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

Test item		Condition			Specification
	Standard		at 0.1C fo		
1, Charge Fast		Charge at 0.5C to $-\Delta V = 5 \sim 10 \text{mV}$			
2, Standard Discharge		At 0.2C to 1.0V			
3, Discharge Cut-off voltage				1.0V	
4, Capacity Minimum		Standard charge / discharge			2200mAh
(mAh)	Typical	Standar	d charge /	2250mAh	
5, Internal resistance		After fully charge, rest 1 hour, measured at 1000HZ			≤30m Ω
6, Self discharge		The charged battery is stored for 28 days			0.2Cdischarge≥
			5°C. And	180minutes	
	!		ed at 0.2C		
7, High tem	7, High temperature test		40°C, 50°	No leakage	
!		charge/discharge			
8, Low temperature test		Store at 0°C for 2 hours then			No leakage
		charge/discharge			
9, Short circuit test		Short circuit after fully charge			No explode
10, Drop test		Free fall on the concrete from 1 meters			No leakage
		after fully charged			No short-circuit
11, IEC61951-2 (2003) 7.4.		1.1 Cycle Life Test			
Cycle life	Charge	Charge		Discharge	Capacity retention
1	0.1C for 16h	0.1C for 16h		0.25C for 2h20min	≥60% after 500
2-48	0.25C for 3h	0.25C for 3h10min		0.25C for 2h20min	cycles
49	0.25C for 3h10min		0	0.2C to 1.0V	
50	0.1C for 16h	1	1-4h	0.2C to 1.0V	

Note: Typical values relative to cells stored for one year or less at $+30^{\circ}$ C max.

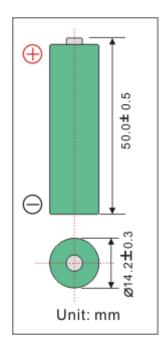


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6, Specification

No	ominal Vol	tage	1.2V	
Dimension	ns	Diameter	14.2±0.3mm	
		Height	50.0±0.5mm	
	A	Approx. Weight	30g	
Nominal Capacity		pical	2250mAh	
(0.2C dischar	ge) Mi	nimum	2200mAh	
Typical	Internal In	anadanaa	Less than 30m Ω upon fully	
Typical Interna		npedance	charged	
Charge		Standard	220mA for 16hrs	
Charge		Fast	1100mA for about 150mins	
	ife expecta	•	500 cycles	
according to IEC61951-2 (2003) 7.4.1.1			000 0,000	
Operational	Charge	Standard	0°C to 40°C	
Operational Temperature		Fast	10°C to 40°C	
Temperature	Discharge		-10°C to 50°C	
	Storage	<1 year	-10°C to 30°C	
		< 3 months	-10°C to 40°C	

7, Dimensions





8, Performance

