NICKEL METAL HYDRIDE BATTERY

NH-AA2500-T

BRIEF SPECIFICATION

Model:NH-AA2500-T
Nominal Voltage: 1.2V
Nominal Capacity: 2500mAh
Weight: Approx. 32g
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-AA2500-T

3, Appearance

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

4, Nominal Specification

Description			Specification
Model			NH-AA2500-T
Size			AA
Dimensions	Diameter (mm)		14.2±0.3
	Height (mm)		50.0±0.5
	Weight (g)		Approx.32g
Nominal Voltage (V)			1.2
Nominal Capacity (mAh)			2500
Internal Impedance (mΩ)			≤30
Discharge Cut-off Voltage			1.0V
Ambient temperature	Charge	standard	0^oC to 40^oC
		fast	10^oC to 40^oC
	Discharge		-10^oC to 50^oC
	Storage	<1 year	-10^oC to 30^oC
		<3 months	-10^oC to 40^oC
		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°C
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 grade 0.5.

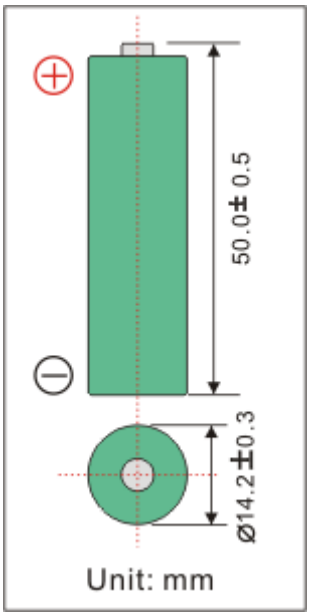
Test item		Condition	Specification
1, Charge	Standard	Charge at 0.1C for 16 hours	
	Fast	Charge at 0.2C to – ΔV = 5～10mV	
2, Standard Discharge		At 0.2C to 1.0V	
3, Discharge Cut-off voltage			1.0V
4, Capacity (mAh)	Minimum	Standard charge / discharge	95%±5% of typical
	Typical	Standard charge / discharge	2500mAh
5, Internal resistance		After fully charge, rest 1 hour, measured at 1000HZ	≤30mΩ
6, Self discharge		The charged battery is stored for 28 days at 20±5°C. And the discharge time is measured at 0.2C discharge	0.2Cdischarge≥ 180minutes
7, High temperature test		Store at 40°C, 50°C, 60°C for 2 hours then charge/discharge	No leakage
8, Low temperature test		Store at 0°C for 2 hours then charge/discharge	No leakage
9, Short circuit test		Short circuit after fully charge	No explode
10, Drop test		Free fall on the concrete from 1 meters after fully charged	No leakage No short-circuit
11, IEC61951-2 (2003) 7.4.1.1 Cycle Life Test			Capacity retention ≥60% after 500 cycles
Cycle life	Charge	Rest	Discharge
1	0.1C for 16h	0	0.25C for 2h20min
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

Note: Typical values relative to cells stored for one year or less at + 30℃ max.

6, Specification

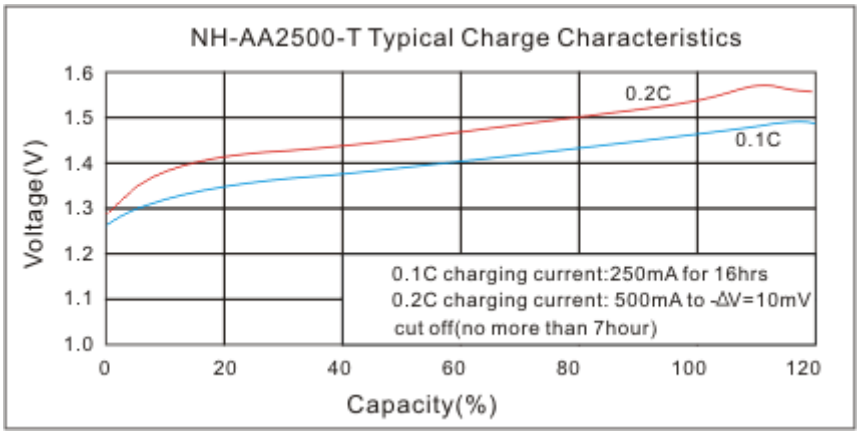
Nominal Voltage			1.2V
Dimensions	Diameter		14.2±0.3mm
	Height		50.0±0.5mm
	Approx. Weight		32g
Nominal Capacity (0.2C discharge)	Typical		2500mAh
	Minimum		95%±5% of typical
Typical Internal Impedance			Less than 30mΩ upon fully charged
Charge	Standard		250mA for 16hrs
	Fast		500mA for no more than 7 hrs
Life expectancy according to IEC61951-2 (2003) 7.4.1.1			500 cycles
Operational Temperature	Charge	Standard	0°C to 40°C
		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

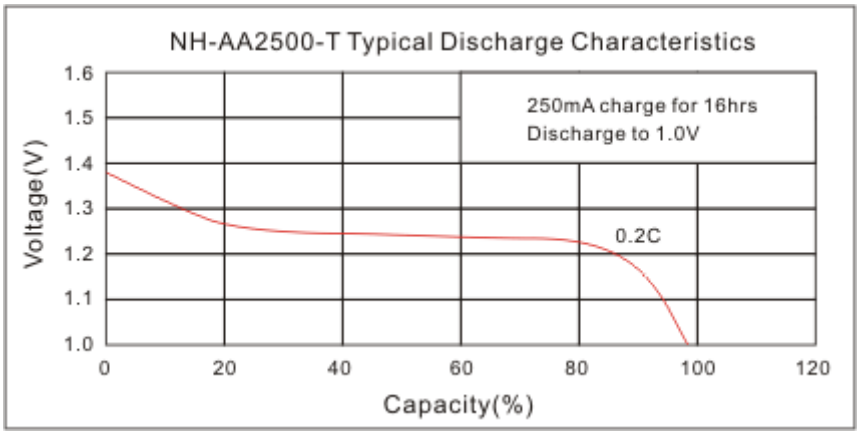
7, Dimensions

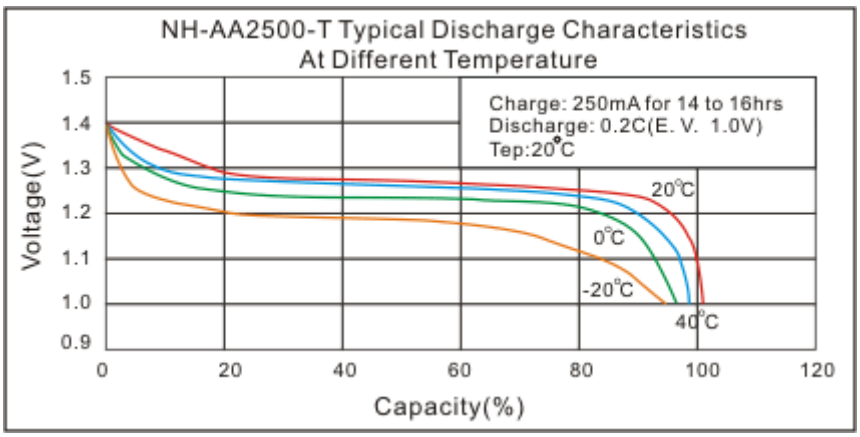


Note: Any representations in this brochure concerning performance, are for informational purposes only and are not construed as warranties either expressed or implied, of future performance.

8, Performance







Note: Any representations in this brochure concerning performance, are for informational purposes only and are not construed as warranties either expressed or implied, of future performance.