KARTA PRODUKTU

ELEMIS

AKUMULATOREK NI-MH 950mAh ROZMIAR AAA

1. Scope

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

Model: AAA950

Size: AAA

The data involving nominal voltage and approximate weight of a battery pack shall be equal to the value of the single cell multiplied by the number of single cell in the battery pack. For example, a battery pack which consisting of 3 cells:

Nominal voltage of single cell=1.2V

Nominal voltage of the battery pack=1.2V×3=3.6V

2. Ratings

Desription			**Specification**
Model			AAA950H
Size			AAA
Dimensions	Diameter(mm)		10.1±0.2
	Height(mm)		44.2±0.3
	Weight(g)		Approx.14g
Nominal Voltage(V)			1.2
Nominal capacity(mAh)			950
Internal Impedance(mΩ)			≤45
Discharge Cut-off Voltage			1.0V
Ambient temperature	Charge	standard	0□ to 40□
		fast	10□ to 40□
	Discharge		-10□ to 50□
	Storage	< 1 year	-10□ to 30□
		< 3 months	-10□ to 40□
		The relative humidity should keep with in 65±20%	

KARTA PRODUKTU

ELEMIS

AKUMULATOREK NI-MH 950mAh ROZMIAR AAA

3. Performance and test Methods

Unless specially stated, tests 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	
	Fast	Charge at 0.5C to -□V=5~10mV	
2. Discharge		At 0.2C to 1.0V	
3. Discharge cut-off voltage			1.0V
4.Capacity (mAh)	Minimun	Standard charge/discharge	900mAh
	Typical	Standard charge/discharge	950mAh
5. Internal resistance		After fully charge,rest 1 hour, easured at 1000Hz	≤45mΩ
6. Self-Discharge		The charged battery is stored for 28 days at 20□±5□. And the discharge time is measured at standard discharge	≥180minutes
7. High temperature test		Store at 40□、50□、60□ for 2 hours then charge/discharge	No leakage
8. Low temperature test		Store at 0□ 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 floor from 1 meter after fully charged	No leakage No short-circuit

11.Cycle life	Charge	Rest	Discharge	
1	0.1C for 16h	0	0.25C for 2h20min	Capacity retention ≥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	

KARTA PRODUKTU

ELEMIS

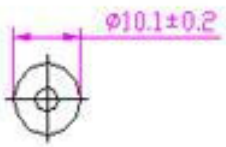
AKUMULATOREK NI-MH 950mAh ROZMIAR AAA

Ni-MH rechargeable cylindrical cell (Data Sheet)

Specification

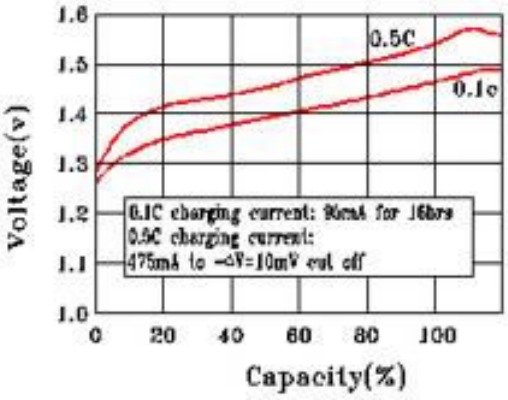
Nominal Voltage			1.2V
Dimensions	Diameter		10.1±0.2mm
	Height		44.2±0.3mm
	Apx. Weight		14g
0.2C Discharge Capacity	Typical		950mAh
	Minimum		900mAh
Typical Internal Impedance			Less than 45mΩ
Charge	Standard		95mA for 16hrs
	Fast		475mA for about 150min
Life expectancy			500 cycles
Operating Temperature	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

(CELL DIMENSIONS)

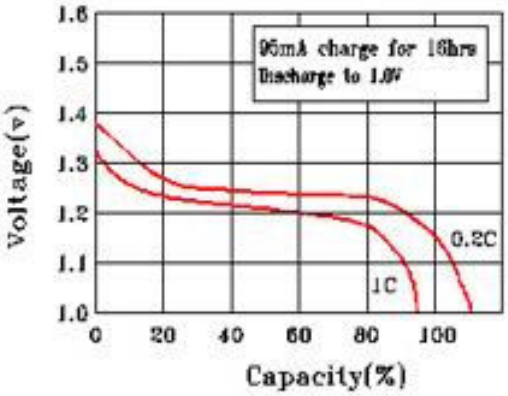


(With tube) 1:1

CHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS
AT DIFFERENT TEMPERATURE