

1. Scope

This specification is suitable for the performance of fol	llowing	Infapowe	r Nickel-Metal	
hydride cylindrical cell and its stack-up battery packs				
Model : B003	Size:	AA		
Rated Capacity: 1300mAh/0.2C				
Standard Charge: 0.1C×16h	Fast	Charge*:	1.0 C \times 72 mir	1
*With $-\triangle V$ control ,When $-\triangle V=5mV$ or dT/ dt =0.8°C/min, st	top charge	e		

2. Performance and Test Methods

Before proceed the following tests, the cells should be discharged at 0.2C to 1.0V cutoff. Unless

special stated, tests should be done within one month of delivery under the following conditions:

Ambient Temperature: 20±5℃

Ambient Humidity: $65 \pm 20\%$

Test Item	Test Conditions				Request
1.Standard Charge	Charge is conducted continuously for 16 hours at the constant current of 0.1CmA after pre-discharge at the constant current of 0.2CmA up to an cut-off voltage of 1.0V.				
2.Open-circuit Voltage	Voltage between terminals of the charged battery specified in item(1) is measured after rest for 1 hour.				≥1.25V
3.Capacity	Discharge time of the charged battery specified in item(1) is measured at 0.2CmA up to an cut-off voltage of 1.0V after rest for 30 minutes. If the discharge time doesn't reach the specified value, the test may be carried out further twice, up to three times in total.				≥Minimum capacity
4.Cycle Life	Cycles	Charge	Rest	Discharge	
	1	0.1CmA×16h	None	0.25CmA×140min	
	2-48	0.25CmA×190min	None	0.25CmA×140min	
	49	0.25CmA×190min	None	0.25CmA to 1.0V/Cell	≥500cycles
	50	0.1CmA×16h	1-4h	0.2CmA to 1 .0V/Cell	
	Cycles 1 to 50 shall be repeated until the discharge duration on any 50th cycle becomes less than 3h., Note: IEC61951-2				



Test Item	Test Conditions	Request
5.Internal resistance	The battery is measured at 1KHz with charge state.	≪30m Ω
6.Over-charge	Charge is conducted continuously for 48 hours at 0.1CmA after the capacity test specified in item(3).	No deformation and leakage
7.Over- discharge	Forced discharge is conducted for 24 hours at a constant resistance of 4.6Ω after pre-discharge at a constant current of 0.2 CmA up to 1.0 V.	No external deformation
8.Self-dischar ge	The charged battery specified in item(1) is stored for 28 days at 20° C, and the discharge time is measured at 0.2CmA down to 1.0V.	≥60 % Capacity
9.High Humidity	The charged battery is stored for 10 days at $33\pm3^{\circ}$ C and $80\pm5^{\circ}$ % of relative humidity.	No electrolyte leakage
10.External Short Circuit	After standard charge, short-circuit the cell at 20 °C ± 5 °C until the cell temperature returns to ambient temperature.(cross section of the wire or connector should be more than 0.75mm ²)	No fire and no explosion
11.Safety Valve Operation	Forced discharge is conducted for 30 minutes at a constant current of 1CmA after pre-discharge at a constant current of 0.2CmA up to 0V.	Not explode or disrupt. *
12.Drop Test	12.Drop TestThe battery is subjected to a drop, which has a height of 1m (39.3inches) to an oak board of 10mm or more thick in a voluntary axis respectively 3 times.	

(**Note**) : * Electrolyte leakage and deformation of battery are acceptable.

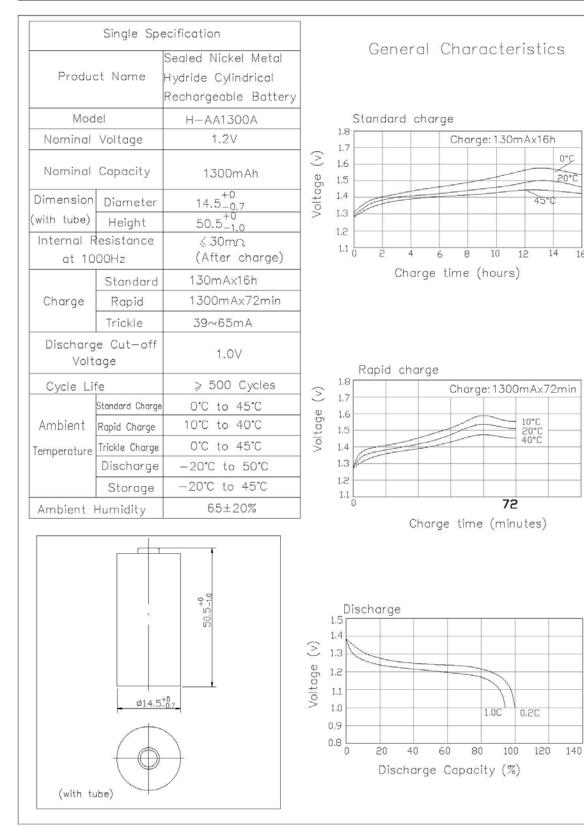
3. Configuration, Dimensions and Markings

Please refer to the attached drawings

4. General Characteristics

Please refer to the attached drawings





Unitech Battery Spec--H-AA1300A