

1. Scope.

This specification is suitable for the performance of for	Nickel-Metal				
hydride cylindrical cell and its stack-up battery packs					
Model:B006	Size: D				
Rated Capacity: 2600mAh/0.2C					
Standard Charge: 0.1C×16h	Fast Charge* : 0.	$5C \times 2.1h$			

*With – $\triangle V$ control ,When – $\triangle V$ =5mV or dT/ dt =0.8°C/min, stop charge

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: $20 \pm 5^{\circ}$ C

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	3. Capacity Discharge time of the charged battery specified in item(1) is measured 0.2CmA up to an cut-off voltage of 1.0V after rest for 30 minutes. If t discharge time doesn't reach the specified value, the test may be carri out further twice, up to three times in total.				≥Minimum capacity
	Cycles	Charge	Rest	Discharge	
	1	0.1 CmA $\times 16$ h	None	0.25CmA×140min	
	2-48	0.25CmA×190min	None	0.25CmA×140min	
4. Cycle Life	49	0.25CmA×190min	None	0.25CmA to 1.0V/Cell	\geq 500 cycles
	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.	$\leq 20 \mathrm{m} \Omega$
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 2.3Ω after pre-discharge at a constant current of 0.2 CmA up to 1.0 V.	No external deformation
8. Self-discharge	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 \pm 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	The 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.	Mechanically and electrically normal

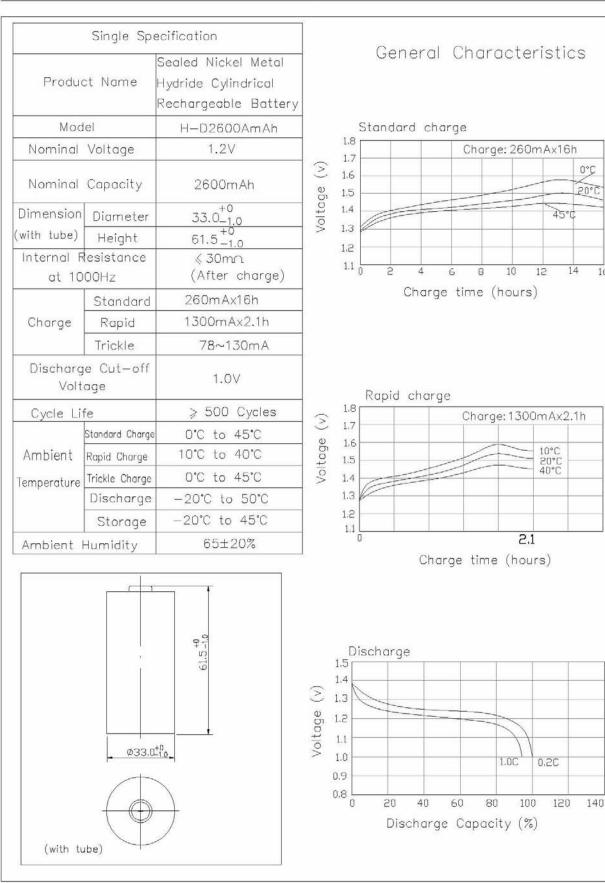
Note: * Electrolyte leakage and deformation of battery are acceptable.

3. Configuration, Dimensions and Markings

Please refer to the attached drawings

4. General Characteristics

Please refer to the attached drawings



Unitech Battery Spec--H-D2600AmAh

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