

1. Scope.

This specification is suitable for the performance of following Infapower Nickel-Metal hydride cylindrical cell and its stack-up battery packs

Model: B005 Size: C

Rated Capacity: 2600mAh/0.2C

Standard Charge: 0.1C×16h Fast Charge*: 0.5C×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: $20\pm5^{\circ}$ C Ambient Humidity: $65\pm20\%$

Test Item		Request			
1.Standard Charge	Charge is cond 0.1CmA after p cut-off voltage				
2. Open-circuit Voltage	Voltage between measured after	≥1.25V			
3. Capacity	Discharge time 0.2CmA up to discharge time out further twice	≥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	≥500 cycles
	50	0.1CmA×16h	1-4h	0.2CmA to 1 .0V/Cell	
	Cycles 1 to 50 cycle becomes				



Test Item	Test Conditions	Request
5. Internal resistance	The battery is measured at 1KHz with charge state.	≤20m 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 2.3Ω after pre-discharge at a constant current of 0.2CmA up to 1.0V .	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 $80\pm5\%$ 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	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



Battery Spec--H-C2600A

Single Specification Sealed Nickel Cadmium Cylindrical Rechargeable Battery Model H—C2600A Nominal Voltage 1.2V Nominal Capacity 2600mAh Dimension Diameter 25.8 -1.0 (with tube) Height 51.0 +0 1.0 Internal Resistance at 1000Hz (After charge) Standard 260mA× 16h Trickle Rapid 1300mA × 2.1h Trickle 78~130mA Discharge Cut—off Voltage 1.0V Cycle Life \$500 Cycles Standard Charge 0°C to 45°C Discharge —20°C to 50°C Storage —20°C to 45°C Ambient Humidity 65±20%						
Product Name Cadmium Cylindrical Rechargeable Battery Model H—C2600A Nominal Voltage 1.2V Nominal Capacity Dimension Diameter (with tube) Height Standard Charge Standard Charge Cycle Life Standard Charge Ambient Trickle Charge Discharge Cut—Off Charge Standard Charge Standard Charge Cycle Life Standard Charge Discharge Cut—Off Cycle Life Standard Charge O'C to 45'C Cycle Charge Cycle Charge Standard Charge O'C to 45'C Cycle Charge Cycle Charge Standard Charge O'C to 45'C Cycle Charge Cycle Cha	Single Specification					
Model H-C2600A Nominal Voltage 1.2V Nominal Capacity 2600mAh Dimension (with tube) Diameter Diameter Diameter Diameter St.0 = 1.0 (with tube) Height Height Diameter St.0 = 1.0 Internal Resistance at 1000Hz (After charge) Charge Standard Charge Discharge Cut-off Voltage 1300mA × 2.1h Trickle The Trickle Diameter Diamet	Produc	ct Name	Cadmium Cylindrical			
Nominal Capacity Dimension Diameter 25.8 −1.0 (with tube) Height 51.0 +0 Internal Resistance at 1000Hz (After charge) Standard 260mA× 16h Rapid 1300mA×2.1h Trickle 78~130mA Discharge Cut−off Voltage 1.0V Cycle Life ≥ 500 Cycles Ambient Rapid Charge 0°C to 45°C Rapid Charge 10°C to 45°C Discharge −20°C to 50°C Storage −20°C to 45°C	Mod	el	•			
Dimension Diameter 25.8 - 1.0	Nominal	Voltage	1.2V			
Diameter 25.8_1.0 With tube Height 51.0 +0 Internal Resistance at 1000Hz (After charge) Standard 260mA× 16h Charge Rapid 1300mA× 2.1h Trickle 78~130mA Discharge Cut−off Voltage 1.0V Cycle Life ≥ 500 Cycles Ambient Rapid Charge 0°C to 45°C Discharge −20°C to 50°C Storage −20°C to 45°C Storag	Nominal	Capacity	2600mAh			
Internal Resistance at 1000Hz (After charge) Standard 260mA× 16h Rapid 1300mA×2.1h Trickle 78~130mA Discharge Cut-off Voltage 1.0V Cycle Life \$500 Cycles Standard Charge 0°C to 45°C Rapid Charge 0°C to 45°C Discharge -20°C to 50°C Storage -20°C to 45°C	Dimension	Diameter	25.8 ⁺⁰ _{-1.0}			
at 1000Hz (After charge) Standard 260mA×16h Rapid 1300mA×2.1h Trickle 78~130mA Discharge Cut—off Voltage 1.0V Cycle Life ≥ 500 Cycles Standard Charge 0°C to 45°C Rapid Charge 10°C to 45°C Trickle Charge 0°C to 45°C Storage −20°C to 50°C Storage −20°C to 45°C	(with tube)	Height	51.0 ⁺⁰ _{-1.0}			
Standard 260mA× 16h Rapid 1300mA×2.1h Trickle 78~130mA Discharge Cut—off Voltage 1.0V Cycle Life ≥ 500 Cycles Standard Charge 0°C to 45°C Rapid Charge 10°C to 45°C Discharge -20°C to 50°C Storage -20°C to 45°C	Internal R	Resistance	<20m_∩			
Charge Rapid 1300mA x 2.1h Trickle 78~130mA Discharge Cut—off Voltage 1.0V Cycle Life ≥ 500 Cycles Standard Charge 0°C to 45°C Rapid Charge 10°C to 45°C Trickle Charge 0°C to 45°C Discharge −20°C to 50°C Storage −20°C to 45°C	at 10	00Hz	(After charge)			
Trickle 78~130mA Discharge Cut—off Voltage 1.0V Cycle Life ≥ 500 Cycles Standard Charge 0°C to 45°C Rapid Charge 10°C to 40°C Trickle Charge 0°C to 45°C Discharge −20°C to 50°C Storage −20°C to 45°C		Standard	260mA× 16h			
Discharge Cut—off Voltage 1.0V Cycle Life Standard Charge Ambient Temperature Trickle Charge Discharge -20°C to 45°C Storage -20°C to 45°C	Charge	Rapid	1300mA × 2.1h			
Voltage Cycle Life Standard Charge Ambient Temperature Trickle Charge Discharge Storage 1.0V		Trickle	78~130mA			
Standard Charge		C. N. December 15. House in	1.0V			
Ambient Temperature Rapid Charge	Cycle Li	fe	≥ 500 Cycles			
Temperature Trickle Charge 0°C to 45°C		Standard Charge	0°C to 45°C			
Discharge -20°C to 50°C Storage -20°C to 45°C	Ambient	Rapid Charge	10°C to 40°C			
Discharge -20°C to 50°C Storage -20°C to 45°C	Temperature	Trickle Charge	0°C to 45°C			
Storage	,	Discharge	-20℃ to 50℃			
Ambient Humidity 65±20%		Storage	-20°C to 45°C			
The state of the s	Ambient	Humidity	65±20%			

General Characteristics







