



**比亚迪股份有限公司**  
**BYD COMPANY LIMITED**

**SEALED METAL HYDRIDE**  
**RECHARGEABLE CELLS & BATTERIES**  
**APPROVAL SHEET**

**TO :** \_\_\_\_\_

**BYD MODEL NO :**           H-SC3000P          

**CUSTOMER APPROVED P/N :** \_\_\_\_\_

**DATE OF SUBMISSION :**           16-Jan-09          

**ATTACHMENT :**           SPECIFICATION          

**TOTAL NO. OF PAGES :**           5          

**SPECIFICATION NO :**           S-HSC3000P01          

**VERSION NO :**           1.0          

<b>Drawn</b>	<b>ZHANZHENG-LI</b>	
<b>Approved</b>	<b>Customer Dept.</b>	<i>ZHIJIAN-LI</i>
	<b>Technology Dept.</b>	<i>ZHENGYI-HUANG</i>
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*(with company chop)*

*Please sign and return one copy to us*

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## 5.2 TEST METHOD &amp; PERFORMANCE

Test	Unit	Specification	Conditions	Remarks	
Capacity	mAh	Typical	3000	Standard charge/discharge	up to 3 cycles are allowed
		Minimum	2800		
Open Circuit Voltage(OCV)	Voltage (V)	≥1.25	After 1 hour standard charge		
Internal impedance	mΩ/cell	≤12	Upon fully charge (1KHz)		
High rate discharge(1C)	minute	≥48(2400mAh)	Standard charge before discharge	End Voltage is 1.0V/Cell	
Discharge current (C)	A	≤9(3C)	Maximum continuous discharge current		
Overcharge		no leakage nor explosion	300 mA(0.1C) charge for 28 days		
Charge Retention	mAh	≥1950	standard charge; storage: 28 days Standard discharge		
Cycle Life	cycle	500	IEC61951-2	see note 3	
Leakage		no leakage nor deformation	Fully charge at 3000 mA(1C), then storage 14 days		

Note 3 IEC61951-2 cycle life

Cycle number	Charge	Rest	Discharge
1	0.1CmA for 16h	none	0.25CmA for 2.33h
2~48	0.25CmA for 3.17h	none	0.25CmA for 2.33h
49	0.25CmA for 3.17h	none	0.25CmA to 1.0V/cell
50	0.1CmA for 16h	1~4h	0.20CmA to 1.0V/cell

50-cycle test as per above table is repeated . The discharge time of the 100th, 200th, 300th, 400th, 500th should be more than 3 hours respectively. (Ambient temperature is 20±5)

## 5.3 Humidity

The cells shall not leak during the 14 days when it is submitted to the condition of a temperature of 33±3 and a relative humidity of 80±5% (salting is allowed).

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**5.4 Vibration**

Cells shall be mechanically and electrically normal after vibration which has an amplitude of 4mm(0.1575 inches) a frequency of 1000 cycles per minute, which should be continued in any directions during 60 minutes

**5.5 Shock**

Cells shall be mechanically and electrically normal after being subjected to a drop from a height of 450mm (17.716inches) onto an oak board in a voluntary axis respectively 3 times.

**5.6 Short**

Cells shall not explode after 1 hour short-circuit test.

**5.7 Incorrect polarity charging**

Cells shall not explode after 5 hour of incorrect polarity charging at 1 CmA.

**6. PRECAUTION**

6.1 We recommend you to set the cut-off voltage at 1.0V/cell.

6.2 If it is below 1.0V/cell, cells may have over-discharged or reverse charged.

6.3 Do not detect - V for first 5 minutes of charging.

6.4 The cells shall be delivered in charged condition, Before testing or using, the cells shall be correctly charged in accordance with this specifications.

**7. WARNING**

7.1 Avoid direct soldering onto cells.

7.2 Observe correct polarity when connecting.

7.3 Do not charge with more than our specified current.

7.4 Use only within the specified working temperature range.

**8. DANGER!**

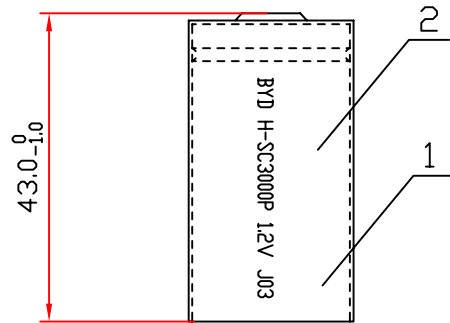
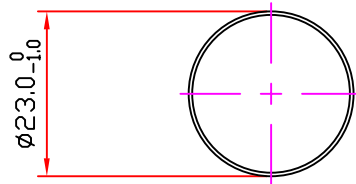
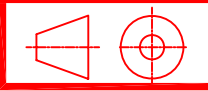
8.1 Avoid throwing cells into a fire or attempting to disassemble them. As the electrolyte inside is strong alkaline and can damage skin and clothes.

8.2 Avoid short circuiting. It may be leakage.

8.3 Not to be used in sealed conditions for Ni-MH cells.

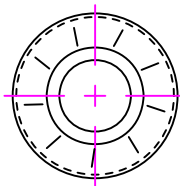
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2	PAPER TUBE	SC	1		429900	SCALE	/	UNIT	MM
1	CELL	SC	1	NI-MH					
NO.	NAME	SIZE	QTY	NOTE	SAP NO				

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