

Version:	Α
Date:	2022

MMD Hong Kong Holding Limited

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### Rechargeable Ni-MH Battery Product Specification

Cell Model: NI-MH AA2600mAh 1.2V



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1. Model Name: R6B4B260/10 , R6B2A260/10

### 2. Appearance

There shall be no such defects as deformation, flaw, stain, discoloration or electrolyte leakage.

### 3. Nominal specification

Description(项目)		H)	Specification (却枚)	
-			Specification(规格)	
IVIC	odel(产品号	• )	NiMH AA RTU 1.2V 2600mAh	
,	Size (型号)		AA	
Dimensions	. Diameter/直径(mm)		14.5+0/-0.7	
(尺寸)	He	ight/高度(mm)	50.5+0/-1.5	
() ( 1 )	W	eight/重量(g)	Approx. 29.5g	
Nominal	Voltage/公務	K电压(V)	1.2	
Nominal capacity/公称容量(mAh)		容量(mAh)	2600	
Internal Impedance/内阻 (充满电后测量) <b>(mΩ)</b>		电后测量 <b>)(mΩ)</b>	≤35	
Discharge Cut-off Voltage/放电截止电压		/放电截止电压	1.0V	
	Charge	Standard/标准	0°C to 40°C	
	充电	Fast/快充	10°C to 40°C	
Ambient	Discharge		-10°C to 50°C	
temperature Storage 环境温度 贮存	<1 year/年	-10°C to 30°C		
	<3 months/月	-10°C to 40°C		
			humidity should keep with in	
		相对湿度	度必须保持在 65±20%	

#### 4. Characteristics

Unless otherwise specified, test: should be done within one month of delivery under the following conditions;

Ambient temperature 20±5°C

Relative humidity 65±20% Atmospheric pressure 960±100mbar



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Test item/测试项目		Condition/制度	Specification/指标
1. Charge 充电	Standard/标准	Charge at 0.1C for 16 hours 0.1C 充 16 小时	0°C to 40°C
	Fast/快速	Charge at 0.5C, -△V=0-5mV、 0.5C 充电,-△V=0-5mV	10℃ to 40℃
	Trickle/涓流	(0.03C)-(0.05C)	0°C to 40°C
2. Discharge/标准放电		At 0.2C to 1.0V 0.2C 放电至 1.0V	
3. Discharge cut-o 放电截止电压	ff voltage		1.0V
4.Capacity/容量 (mAh)	Minimum 最低	Standard charge/discharge 标准充放电	2500
,	Typical 典型	Standard charge/discharge 标准充放电	2600
5. Internal resistance/内阻		After fully charge,rest 1 hour, measured at 1000Hz 充满电静置 1 小时候测试	≤35mΩ
6. Self-Discharge/自放电		The charged battery is stored for 360 days at $20 ^{\circ} \pm 5 ^{\circ} \cdot $ And the discharge time is measured atstandard discharge/ 充满电后电池于 $20\pm5^{\circ}$ 上 存 360 天后,用标准放电制度测试	Capacity≥75% 容量≥75%
7.High Rate Discharge 高倍率放电		Standard charge 1hour rest Before Discharge by 0.5C to 1.0V/标准充电后搁置一小时,0.5C 放电至 1.0V	≥108minutes (≥108 分钟)
8.Overcharge/过充		0.1C charger 28 days, /0.1C 充电 28 天	No leakage 无漏液



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0.0 1 11	按照 IEC61951-2 2003 中 7.4.1.1 项实验方法 Based on clause 7.4.1.1, IEC61951-2 2003			
9.Cycle life 循环寿命	Charge 充电	Rest 测试	Discharge 放电	
1	0.1C for 16h 0.1C 充 16 小 时	0	0.25C for 2h20min 0.25C 放 2 小时 20 分	     循环 <b>500</b> 次后容量
2~48	0.25C for 3h10min 0.25C 充 3 小 时 10 分	0	<b>0.25C for 2h20min</b> 0.25C 放 2 小时 20 分	≥60% Capacity retention≥60% after 300cycles
49	0.25C for 3h10min 0.25C 充 3 小 时 10 分	0	<b>0.25C to 1.0V</b> 0.25C 放至 1.0V	
50	0.1C for 16h 0.1C 充 16 小 时	1~4h	<b>0.2C to 1.0V</b> 0.2C 放至 1.0V	

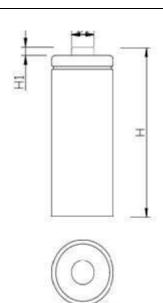
Cycles 1 to 50 shall be repeated until the discharge duration on any 50<sup>th</sup>cycle becomes Less than 3h 循环至任意第 50 次放电时间不足 3 小时为止

10. Leakage Test	Standard charge stand for 14days	No leakage
泄漏测试	标准充电后存放 14 天检查	无漏液
11. High temperature test 高温测试	Store at 40℃、50℃、60℃ for 2 hours then charge/discharge 在 40℃、50℃、60℃的环境下贮存 2 小时后充放电	No leakage 无漏液
12.Low temperature test	Store at 0 ℃ for 2 hours then charge/discharge	No leakage
低温测试	在 0℃ 的环境温度下贮存 2 小时后充电,放电	无漏液
13. Short circuit test	Short circuit after fully charge	No explode
短路测试	充满后进行短路测试	无爆炸
14. Drop test 跌落测试	Free fall on the concrete from 1 meters after fully charged 充满电后于 1 米高处自由跌落 3 次	No leakage No short-circuit 电 池不泄漏/不短路

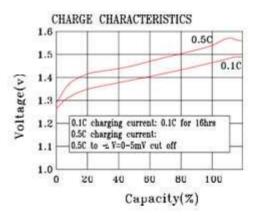


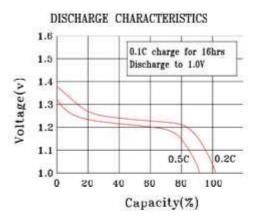
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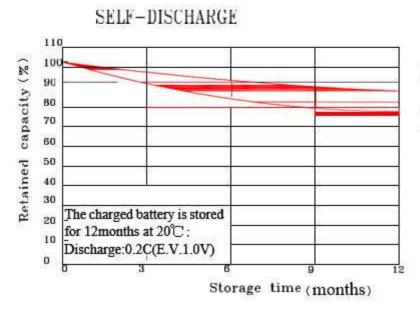
5. Drawing

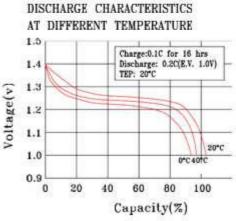


Project 项目	Description 类型	Dimension 尺寸(mm)
D1	Diameter 重径1	Max 5.5
D	Diameter 夏经	14.5 +0
H1	Height 高度1	≥1.0
Н	Height	50.5 +0











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#### 6. Cautions in use

To ensure proper use of the battery please read the manual carefully before using it.

### Handling

Do not expose to, dispose of the battery in fire.

Do not put the battery in a charger or equipment with wrong terminals connected.

Avoid shorting the battery.

Avoid excessive physical shock or vibration.

Do not disassemble or deform the battery.

Do not immerse in water.

Do not use the battery mixed with other different make, type, or model batteries.

Keep out of the reach of children.

#### Storage

Cycle (charge and discharge) the battery every 6 month to maintain cell/battery performance,

when being stored for an extended period of time

Store the battery in a cool, dry and well-ventilated area.

Disposal

Regulations vary for different countries.

Dispose of in accordance with local regulations.

#### 7. Note

Any other items which are not covered in this specification shall be agreed by both parties.

#### 8. Period of Warranty

The period of warranty is one year from the date of shipment. Philips guarantees to give a replacement in case of cells with defects proven due to manufacturing process instead of the customer abuse and misuse.