

# THE SPECIFICATION OF PRODUCT

MODEL	AMH9033
DESCRIPTION	RECHARGEABLE NI-MH BATTERY

## 1、 RANGE

The standard regulate inspect require of appearance and performance and dimension of RYO14.4V battery.

The standard fit inspection of IQC or QC or IPQC or QA.

本规范规定 RYO14.4V 电池的外观、性能、尺寸检查要求，方法。

本规范适应于我司 IQC、QC、IPQC、QA 的检查。

## 2、 REFERENCE STANDARD

GB2828-2003 《逐批检查计数抽样程序》

GB/T18287-2000 《蜂窝电话用锂离子电池总规范》

## 3、 DEFINE

3.1 CRITICAL: 致命缺陷。存在直接或潜在安全隐患的缺陷。

3.2 MAJOR: 严重缺陷。直接影响使用的缺陷。

3.3 MINOR: 轻微缺陷。制造不精细的缺陷。

## 4、 STANDARD

### 4.1 APPEARANCE

A、Color of product is OK. product have not big scrape mark or big black point or obvious big gap. 产品是否正确，产品表面有无划伤、黑点、缩水、变形、披锋、缺损。

B、The sign and color and position of label is OK. 标贴内容及色彩是否正确，位置是否符合要求。

C、Screw have not rust and slide tooth. 螺丝是否生锈，有无滑牙，螺丝头是否滑丝。有无漏打，打错。

D、Product have not big sidestep, the aperture is OK. 产品有无错位，缝隙有无过大。

#### 4.2 Product dimension 产品尺寸

The dimension of battery is OK. Using tool is well. 产品尺寸要符合规格书要求。

#### 4.3 The performance of product 产品性能

No	ITEM	STANDARD	REMARK
1	Cell 电芯	NI-MH SC cell	
2	Voltage 开路电压	$\geq 14.4V$	
3	Capability 容量	3.0Ah	
4	The current of standard charged 标准充电电流	600mA	
5	The current of fast charged 快速充电电流	1.5A	
6	The max current of charged 最大充电电流	3.0A	
7	inner resistance 内阻	$\leq 250m\Omega$	
8	The current of standard discharged 标准放电电流	600mA	
9	The max current of discharged 最大放电电流	20A	
10	The end voltage of discharged 放电截止电压	12V	The current of discharged is 3.3A.
11	The end voltage of discharged 放电截止电压	9.6V	The current of discharged is over 16A.
12	The heat thermal protector	50°C	
13	The life of charged circle 循环寿命	After 120 piece circle, the capability $\geq 2.1Ah$	

## 5、 INSPECT MEASURE 检查方法

5.1 Under 40W daylight lamp, the distance of lamp and product is 1~1.5m, the distance of eye and product is 30~45cm, Angle of view is 0~90°, time of view is 3~5sec. the result must accord №4.1 require 在 40W 日光灯下，灯距离物 1~1.5 米，人眼距离物 30~45 厘米。目视角度从 0 度到 90 度。目视时间为 3~5 秒。要达到 4.1 的要求。

5.2 The battery fit tool and charger is well. 用电池试装工具和充电器，要达到 4.2 的要求。

#### 5.3 Inspect measure of performance 性能检测方法

A、Check voltage by multimeter, the result must accord №4.3 require. 万用表检测输出电压，要达到 4.3 的要求。

B、Check inner resistance by inner-resistance-testing instrument, the result must accord №4.3 require. 用内阻测试仪检测内阻，要达到 4.3 的要求。

C、Check The heat thermal protector by multimeter, the result must accord №4.3 require. 用万用表检测温度开关，要达到 4.3 的要求。

D、put the battery into battery-measure-instrument, firstly discharge by 3A, over

please while voltage of battery is 12V. Secondly charge the battery by 1.5A, over please till the time of charged is 150 minutes, wait 30 minute. Thirdly discharge by 0.6A current, over please while voltage of battery is 12V, the capability of discharged must accord №4.3 require. 将电池装在电池检测柜上, 先 3A 电流放电至 12V, 再 3A 恒流充电 120 分钟, 静置 30 分钟, 再 0.6A 放电至 12V, 放电容量要达到 3Ah。

- E、put the battery into battery-measure-instrument, firstly discharge by 3A, over please while voltage of battery is 12V. Secondly charge the battery by 3A, over please till the time of charged is 72 minutes, wait 15 minute. Thirdly discharge by 3A current, over please while voltage of battery is 12V, wait 15 minute. go on being charged and being discharged, after 120 circle, the capability of discharged must accord №4.3 require. 将电池装在电池检测柜上, 先 3A 电流放电至 12V, 再 3A 充电 72 分钟, 静置 15 分钟, 再 3A 放电至 12V, 再静置 15 分钟, 再充电再放电, 120 个循环后, 检测放电容量, 达到 4.3 的要求。
- F、Because the performance of protect is complex and dangerously, we have checked these performance by special instrument , so we suggest that client need not to check. 因保护性能测试比较复杂且危险, 我司已用专用设备测试过, 客户可以不用测试。

## 6、 THE REQUIRE OF STORE 储存要求

Please put the battery in the place of cool and dry , temperature range: 0 ~ 30 °C. 请将电池放于阴凉干燥处保存, 温度范围: 0~40°C.

## 7、 NOTES OF USING 使用注意事项

- 7.1 Prohibition to anti-polarity charge. 禁止反极性充电。
- 7.2 Prohibition to burn or damage the battery, or batteries will be an explosion or release harmful gases. 禁止焚烧或损伤电池, 否则电池将爆炸或释放出有害气体。
- 7.3 Stop using when there' re noise, heat or leakage 出现杂音、高温或漏液时, 应停止使用。
- 7.4 stop using when Power shortages, to avoid damaging the battery by overdischarging. 电力不足时, 应停止使用, 以免过放而损坏电池。
- 7.5 Do not put the battery into the water. 不要将电池放入水中。
- 7.6 Do not try to disassemble or pressure into the battery, it' s easy to heat or fire. 不要试图拆开或压、撞电池, 这样易发热或起火。
- 7.7 Keep the battery away from children. 远离儿童放置。
- 7.8 The battery will be damaged by Short-circuit, over-charging or improper charging. 短路、过充或充电方法不当, 都将会损坏电池。
- 7.9 Please use the appropriate battery charger. 请使用合适的充电器为电池充电。

## 8、 PRODUCT SIZE CHART APPEARANCE 外型尺寸

