

Version:	А
Date:	2018-02-07

Sample Number:

For Any Detail and question, Please Tel Engineer: +86 0756-6333555

Rechargeable Ni-MH Battery Product Specification



Product Model: AgfaPhoto Rechargeable Mignon AA 2300mAh

Prepared By/Date	Checked By/Date	Approved By/Date
编制/日期	审 核/日 期	批准/日期

	Signature/签 字	Date/日 期
Customer Approval 客户确认	Company Name/公司名称	
	Company Stamp/公司印章	



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Amendment Records:

Revision 版 本	Description/记 述	Prepared by 编 制	Approved by 批准	Date/日 期
A/0	First Publish	Weipeng Huang	Zisong Fan	2018.02.07

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1. Preface:

This specification is suitable for the performance of the AgfaPhoto Ni-MH rechargeable battery.

2. Model:

Rechargeable Mignon AA 2300mAh

3.Appearance:

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

4. Nominal specification:

Desci	Description(项目)		Specification (规格)
Mc	Model (产品号)		AgfaPhoto Rechargeable
			Mignon AA 2300mAh
S	Size(型号)		AA
D :	Dian	neter/直径(mm)	14.5+0/-0.7
Dimensions (尺寸)	Hei	ight/高度(mm)	50.5+0/-1.5
,,,,,,	W	eight/重量(g)	Approx. 28.5g
Nominal	Nominal Voltage/公称电压(V)		1.2
Nominal ca	Nominal capacity/公称容量(mAh)		2300
Internal Impedan	Internal Impedance/内阻(充满电后测量)(mΩ)		≤35
Discharge Cut-	off Voltage	/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 <1 year/年		-10°C to 30°C
环境温度	贮存	<3 months/月	-10°C to 40°C
	The relative		humidity should keep with in
		相对湿度	度必须保持在 65±20%

5. Characteristics/性能

Unless otherwise specified, test: should be done within one month of delivery under the following conditions; (除非特别说明,测试需在发货后一个月内在下述条件下进行)

Ambient temperature/环境温度 20±5°C

Relative humidity/相对湿度 65±20% Atmospheric pressure、大气压力 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℃ to 40℃
	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	主放电	At 0.2C to 1.0V 0.2C 放电至 1.0V	
3. Discharge cut- 放电截止电压	_		1.0V
4.Capacity/容量 (mAh)	Minimum 最低	Standard charge/discharge 标准充放电	2200
	Typical 典型	Standard charge/discharge 标准充放电	2300
5. Internal resista	nnce/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 28 days at 20°C±5°C. And the discharge time is measured at standard discharge/充满电后电池于20±5℃贮存28天后,用标准放电制度测试	≥180minutes (≥180 分钟)
7.High Rate Disc 高倍率放电	harge	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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9.循环寿命			003 中 7.4.1.1 项实验方法 1.1, IEC61951-2 2003 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	
2~48	0.25C for 3h10min 0.25C 充 3 小 时 10 分	0	0.25C for 2h20min 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	0.2C to 1.0V 0. 2C 放至 1. 0V	
50	0.1C for 16h 0.1C 充 16 小 时	1~4h	0.2C to 1.0V 0. 2C 放至 1. 0V	

Cycles 1 to 50 shall be repeated until the discharge duration on any 50thcycle 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°C、50°C、60°C for 2 hours then charge/discharge 在 40°C、50°C, 60°C 环境下贮存 2 小时后充放电	No leakage 无漏液
12.Low temperature test	Store at 0°C for 2 hours then charge/discharge	No leakage
低温测试	在 0°C 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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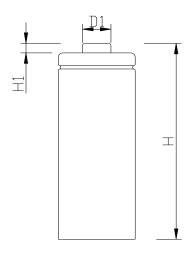


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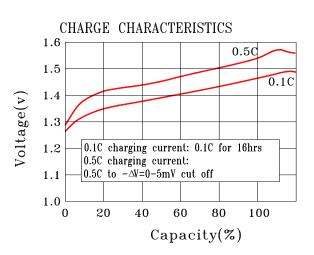
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6. Drawing/图形

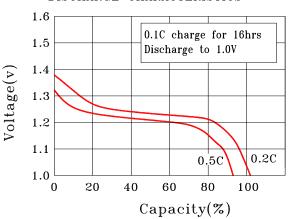




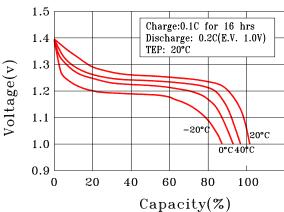
Project 项目	Description 类型	Dimension 尺寸(mm)
D1	Diameter 直径1	Max 5.5
D	Diameter 直径	14.5 ⁺⁰ _{-0.7}
H1	Height 高度1	≥1.0
Н	Height 高度	50.5 ⁺⁰ _{-1.5}



DISCHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS AT DIFFERENT TEMPERATURE



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7. Cautions in use:

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

为保证正确使用电池,请在使用前详细阅读以下使用指南

Handling:

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

/请勿将电池投入火中;

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

/请勿将电池反极放入充电器或设备中

Avoid shorting the battery./避免将电池短路

Avoid excessive physical shock or vibration./避免剧烈的振动与冲击

Do not disassemble or deform the battery./请勿解剖或破坏电池

Do not immerse in water./请勿将电池投入水中

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

/请勿将不同生产商、不同规格、不同型号的电池混合使用

Keep out of the reach of children./请将电池远离儿童

Storage/贮存

Cycle (charge and discharge) the battery every 6 month to maintain cell/battery performance, When being stored for an extended period of time/若要持续贮存,为了维护电池性能,在半年内要对电池进行充放电一次,以防其失去功效

Store the battery in a cool, dry and well-ventilated area./请将电池存放在低温、干燥、通风处

Disposal/处置

Regulations vary for different countries. /电池处理法规因国家不同而不同

Dispose of in accordance with local regulations./电池因按当地的法规进行处理

8. Note:

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

/此规格书上未涉及的项目,双方可共同协商达到一致

Period of Warranty:

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

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