

SPECIFICATION FOR APPROVAL

承认书


客户 / CUSTOMER	:	
客户型号 / CUSTOMER P/N	:	01009
产品名称 / ITEM	:	12V 300mA L35美规充电器/ 12V 300mA L35 US Standard battery charger
产品种类 / DESCRIPTION	:	线 充/cable type charger
本公司产品型号 / OUR MODEL	:	CH-RMH601-03
标准 / STANDARD	:	
额定 / RATING	:	I/P: AC 100V-240V 50/60Hz 450mA O/P:DC 12V 300mA
备注 / REMARKS	:	

注意:在贵司出单前,请确认签回以下项目/ Attention: Before placing orders, please confirm to sign back the followings:

- ☐ 产品规格(首页) /Production Spec(Front Page)
- ☐ 铭牌规格(如有) /Nameplate Spec(if any)
- ☐ 包装规格(如有)/Packing Spec(if any)

版本 REV	描述/DESCRIPTION	日期 DATE
A0	首次发行/FIRST EDITION	2017-8-10
A1	修改格式/CHANGE FORMAT	2019-1-28

瑞鼎电子/ Ryder Electronics	
	批准/Approved by
签名 Signature	衣绍鹏
日期/DATE	2019-1-28

客户/ CUSTOMER	
确认	
Approved by	
	(签字或公司盖章)
日期/DATE	

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1. 产品特点 Product characteristics

- 短路电路保护 Short-circuit protection
- 过流保护 Over current Protection

2. 电气性能 Electrical specification

2.1 充电器输入特性 Input characteristics of charger

2.1.1 输入电压 Input voltage

AC 100V~240V 50HZ/60HZ

2.1.2 输入电流 Input current

在额定输入电压 100V---240V 时输入电流小于 0.5A

The maximum input current < 0.5A @100V-240Vac input

2.1.3 待机功耗 Maximum power consumption at no-load state

The input power<1W @100V-240Vac input

2.2 本充电器输出特性 Output characteristics of charger

2.2.1输出空载电压 Output voltage

11.6V---11.8V

2.2.2输出额定电压 Rated output voltage

12V

2.2.3额定充电电流：(正常充电条件下) Charging current: (under normal charging condition)

额定充电电流 Rated charging current: 300mA

2.2.4充饱转灯电流 The current of turn LED after fully charged

当电池到充饱状态时由红灯转为绿灯的电流，称为转灯电流

It is the current after battery fully charged, LED turns from red to green

转灯电流 The current: 60mA ---120mA

2.2.5启动延迟时间 Start-up delay time

当输入 115Vac 和输出最大负载时, 最大启动时间为 3S

3 seconds Max. At 115Vac input and output Max. Load.

2.2.6最大功率 Ultimate output

3.6W

2.2.7短路电路保护 Short-circuit protection

该电源供给电器在短路解除时, 能恢复正常工作。

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The power supply will be auto recovered when short circuit faults remove.

2.2.8过流保护 Over current Protection

过流故障排除后，电源将自动恢复正常工作。

The power supply will be auto recovered when over current faults remove.

3. 充电方式及 LED 指示状态 Charging method and LED indication

3.1 LED 指示 LED indication

不接电池	充电指示灯——绿灯常亮
充电状态	充电指示灯——红灯常亮
充电状态	充电指示灯——绿灯常亮
输出短路或反接	充电指示灯——红灯闪烁
No battery	LED---green
Charging	LED--- red
Fully charged	LED--- green
Short-circuit or reverse	LED---red flashes

4. 适用环境 Applicable environment

4.1 工作温度 Working temperature

0~40℃

4.2 工作湿度 Working humidity

Working humidity ≤90% （不结露, No condensation）

4.3 贮存温度 Storage temperature

-20~+70℃

4.4 存储湿度 Storage humidity

Relative humidity ≤85%

4.5 大气压力 Atmospheric pressure

70~106KPa

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5. 安全要求 Safety requirements

5.1 安全 Safety

符合 CE UL 标准
CE UL compliant

5.2 抗电强度 Electrical Resistance

初、次级抗电强度 $\geq 1500\text{VAC}$ 50Hz 5.0mA 60s 无击穿、飞弧现象。

Primary electrical resistance $\geq 1500\text{V AC } 50\text{HZ } 5.0\text{mA } 60\text{s}$. No breakdown or arcing phenomenon in 1minute.

5.3 绝缘电阻 Insulation resistance

绝缘电阻 $\geq 50\text{M}\Omega$ (在 DC500V 条件下)

Insulation resistance $\geq 50\text{M}\Omega$ (under the condition of DC 500V)

5.4 漏电流 Leakage current

Leakage $< 1\text{mA max @}240\text{Vac}/50\text{Hz}$

6. 机械 Mechanics

6.1 本充电器外观图 Appearance

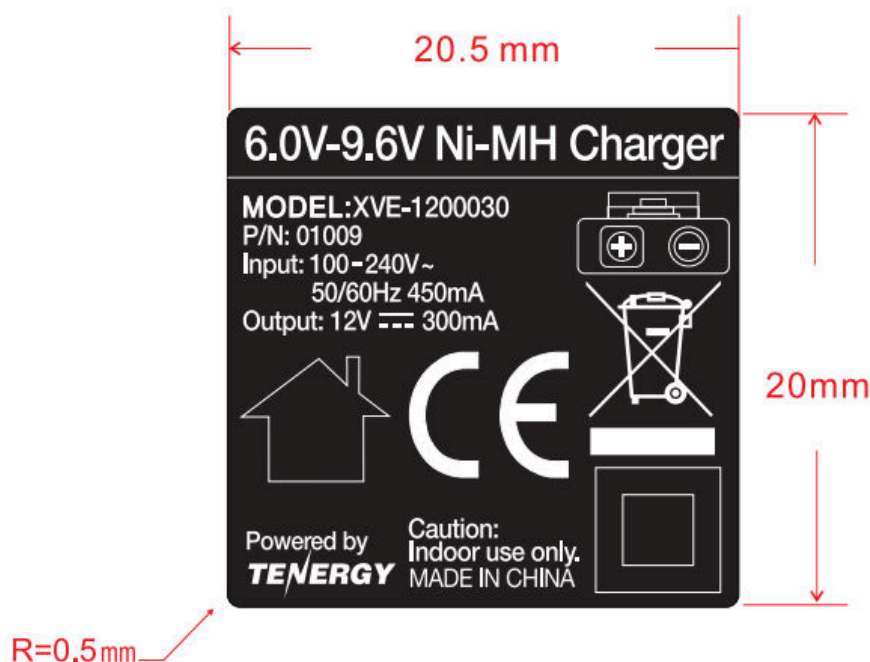
具体外观颜色及印字按客户要求定制 The appearance and print can be customized



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6.2 本充电器铭牌标贴 Charger label

铭牌具体规格可按客户要求订制 Charger label can be customized



6.3 输出线 Output cable

DC 线: AWM 2468 双排线 24AWG*2C, VW-1, 80℃, FT1, 300V, 线上有字, 总 1.0M 长, 无环,
DC 头为: 6.2 端子方正圆负。 SR4*7.

7. 可靠性能 Reliable performance

- 高温试验: 实验温度为 $65^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 产品不包装, 持续时间为 5 小时。在常温下放置待恢复后对其外观、指示功能及电气性能进行重新测试。外观应平整无划痕、毛刺以及其它机械损伤, 外露金属部分不应有锈蚀; LED 指示功能及电气性能正常。

High temperature test: under $65^{\circ}\text{C} \pm 2^{\circ}\text{C}$, the charger without packing, last for 5 hours. Then take it into the room temperature, test its appearance, LED and electrical specification. The appearance should have no scratches, burrs and other mechanical damage, metal parts rust should have no corrosion. LED indicator and electrical specification works normally

- 低温试验: 实验温度为 $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 产品不包装, 持续时间为 8 小时。在常温下放置待恢复后对其外观、指示功能及电性能进行重新测试外观应平整无划痕、毛刺以及其它机械损伤, 外露金属部分不应有锈蚀; LED 指示功能及电气性能正常。

Low temperature test: under $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$, the charger without packing, last for 8 hours. Then take it into the room temperature, test its appearance, LED and electrical specification. The

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appearance should have no scratches, burrs and other mechanical damage, metal parts rust should have no corrosion. LED indicator and electrical specification works normally

- 恒定湿热试验：实验温度为 $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ ，湿度为 90%~95%，产品不包装，持续时间为 48 小时。测试后对其外观、指示功能及电性能进行重新测试。外观应平整无划痕、毛刺以及其它机械损伤，外露金属部分不应有锈蚀； LED 指示功能及电气性能正常。

The constant humidity and heat test: under $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, humidity 90%~95%, the charger without packing, last for 48 hour. Then test its appearance, LED and electrical specification. The appearance should have no scratches, burrs and other mechanical damage, metal parts rust should have no corrosion. LED indicator and electrical specification works normally

- 振动试验：频率为 10~55HZ，振幅为 0.35mm，每个方向上扫频循环次数为 10 次。实验后对其外观、指示功能及电性能进行重新测试。外观应平整无划痕、毛刺以及其它机械损伤，外露金属部分不应有锈蚀； LED 指示功能及电气性能正常。

Vibration test: 10~55HZ, amplitude 0.35mm, Sweep cycles in each direction 10 times. Then test its appearance, LED and electrical specification. The appearance should have no scratches, burrs and other mechanical damage, metal parts rust should have no corrosion. LED indicator and electrical specification works normally

- 跌落试验：高度为 1 米，实验台厚度为 20mm 的硬木板，6 个表面，每个方向 1 次。实验后对其外观、绝缘强度、指示功能及电性能进行重新测试，电性能应满足要求。外观无破损，内部无异响。

Drop test: from 1M, the test platform is the hardboard with 20mm thickness. 6 surface, once in each direction. Then test its appearance, Dielectric strength, LED and electrical specification. Electrical specification should meet the requirements. The appearance no damage, no abnormal noise inside

8. 外观要求 Appearance requirements

充电器外壳表面平整无划痕，毛刺及其它机械损伤，丝印完整清晰，外露金属部份无锈蚀。

Charger case should be smooth and no scratches, burrs and other mechanical damage, complete and clear screen, the exposed metal parts no rust

9. 体积与重量 Volume and weight

9.1 体积 Volume

L78.8*W48*H30

9.2 重量 Weight

Net:

10. 抽样标准 Sampling standard

产品抽样检验参照 MIL-STD-105E 标准制定满足本公司产品品质检验之抽样计划，并严格督导实施。当客户或合同有特殊要求时。可按客户和合同要求执行。

Product sampling reference MIL-STD-105E standards to meet the company's products quality

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inspection of the sampling plan, and implement strict supervision. Also can be based on the customer requirement

11. 包装 Packing

PE 袋子+小白盒, 包装方式按客户要求订制。

PE bag + white box. Packing can be customized

12. 使用注意事项 Caution

- 不可在超过 40℃ 环境使用本充电器对电池充电
Do not use the charger to charger when temperature is over 40℃
- 充电时请远离热源和火源。
Far away from heat and fire
- 请勿在酸、碱、和有腐蚀的环境中使用本充电器及电池。
Do not use the charger under the environment of acids, alkalis, and corrosion
- 请勿将充电器进水或淋雨, 以免引起安全问题。
Do not place the charger into rain or water, or may cause problems
- 请勿自行拆开充电器和电池, 以免发生危险。
Do not disassemble charger and battery, to avoid danger
- 不得让小孩单独使用本充电器。
Do not let children use the charger alone

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