

产品承认书

SPECIFICATION

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Version Revision Record

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1. 描述(Scope) :

此承认书适应于 14 串锂电池 (☒ 三元 ☐ 铁锂) 充电器。

The specification is applied for the 14S (☒ NCM ☐ LFP) lithium battery charger.

2. 环保法规(Environment Standard) :

☒ROHS ☐REACH ☐CPSIA ☐EN71 ☐PHTHALATE ☐HALOGEN

3. 符合的安全及电磁兼容标准(Safety and EMC Standard) :

☐ EN60335-2-29	☐ EN61558-1	☐ GB4943.1	☐ GB4706
☐ UL1012	☐ UL62368	☐ AS/NZS 60335	☐ K60335
☐ EN62368	☐ EN55014	☐ EN55032	☐ GB17625.1
☐ FCC Part15	☐ J60335	☐ J55032	☐ EN55014

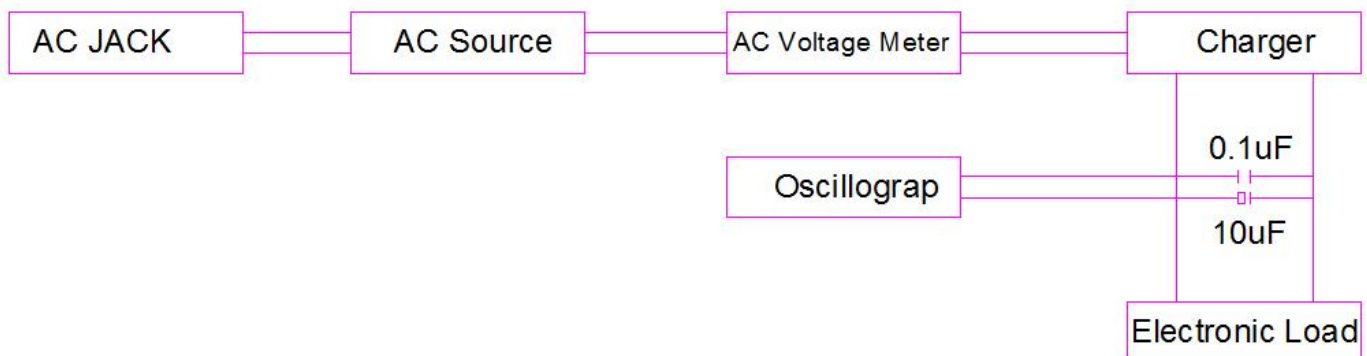
4. 已取得的安全及电磁兼容标准(Safety and EMC Approval):

☐CB ☐TUV/GS ☐CE ☐PSE ☐UL ☐FCC
☐SAA ☐C-tick ☐KC ☐CCC ☐J TLC ☐E-mark

5. 测试电路 (Circuit Test) :

无特殊规定的情况下依照下面的电路进行测试.

Follow the below circuit to test if no special demand



6. 输入特性 (InputFeatures) :

6.1 输入电压(Input Voltage):

额定电压(Nominal Voltage):220Vac

工作电压 (Operation Voltage) :176-264Vac

6.2 输入频率(Input Frequency):

额定频率 Nominal Frequency:50Hz

工作频率 Operation Frequency:47-63Hz

6.3 输入电流(Input Current):

输入交流电压为额定值时,输出为额定负载, 最大输入交流电流 7A。

When the input AC voltage is rated, the output is rated load and the maximum input ac current is 7A.

6.4 浪涌电流(Inrush Current):

环境温度为 25°C, 输入 220Vac 冷态起动电源时的最大浪涌电流小于 100A。

The input inrush current is less than 100Amax when starting up with Vin at 220Vac and at 25°C.

6.5AC 漏电流(AC Leakage Current):

输入电压 240Vac 时, 最大漏电流为 3.5mA。

The leakage current is less 3.5mA at 240Vac input.

6.6 功率因素 (Power Factor):

输入电压 240Vac 时, 功率校正因数大于 0.5。

The power factor is above 0.5 at 240Vac input.

7. 输出及充电特性(Output and Charging Features) :

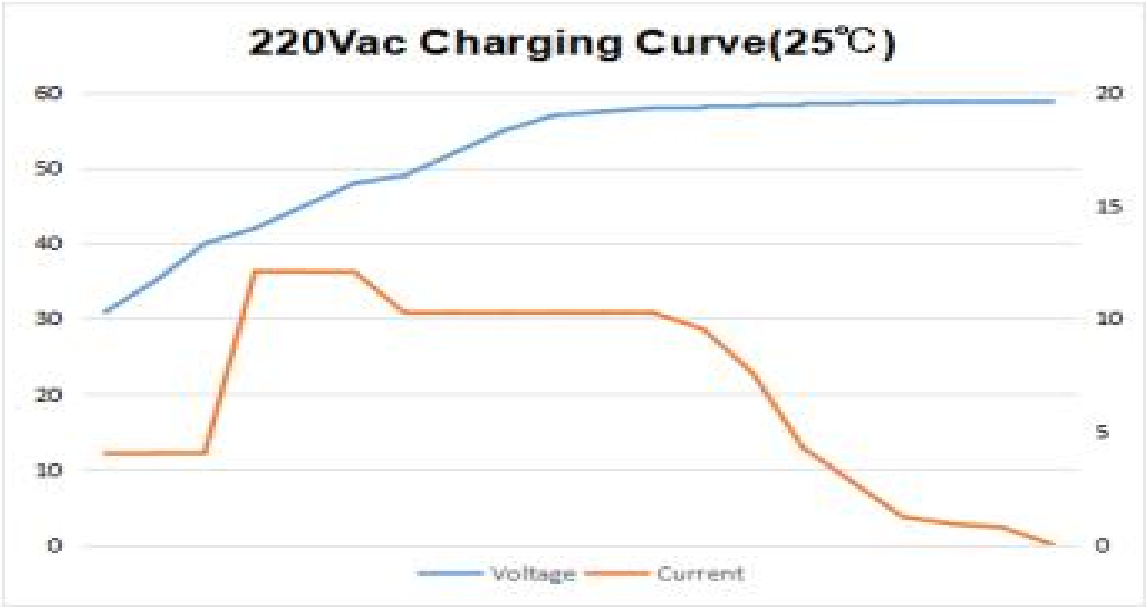
7.1 充电状态与充电指示 (@输入 230Vac, 25 度)

Charging status &LED indication (@Input 230Vac,25 degree)

	充电状态 Charging status	电池电压 Battery Voltage:	指示灯显示状态 LED Status Indicator
		充电电流 Charging Current:	
1	空载 No load	待机状态: 未接电池 Ich=0A	状态指示灯: 绿灯闪 电量指示灯: 全灭
2	激活或预充 Active or pre-charging	$30.8\pm 1V \leq V_{bat}$ Ich=4±0.5A	状态指示灯: 红常亮 电量指示灯: 对应指示灯闪烁

3	快充 Quick Charge	$42 \pm 1V \leq V_{bat}$ $I_{ch} = 12 \pm 0.5A$	状态指示灯：红常亮 电量指示灯：对应指示灯闪烁
4	电池充满 Fully charged	$58.8 \pm 0.2V$ $I_{ch} \leq 1.2 \pm 0.3A$	状态指示灯：红常亮 电量指示灯：全亮
5	充电截止 Charge Cutoff	$I_{ch} \leq 0.6 \pm 0.3A$	状态指示灯：绿常亮 电量指示灯：全亮
6	电池故障 Battery Failure	电池欠压 UVP $V_{bat} < 30.8 \pm 1V$	状态指示灯：黄常亮 电量指示灯：全灭
		电池过压 OVP $59.5 + 1 / - 0.7V$	状态指示灯：黄常亮 电量指示灯：全灭
		充电超时 >12H(如需继续充电拔掉电源重新接上可正常工作)	状态指示灯：紫常亮 电量指示灯：全灭
		电池反接报警 Reverse Polarity	状态指示灯：红灯闪 电量指示灯：全灭
		输出短路 Short circuit	状态指示灯：红灯闪 电量指示灯：全灭

充电曲线：Charging curve:



7.2 纹波和噪音(Ripple and Noise):

额定负载额定输入电压下，输出电压的纹波电压值小于 2%

The output current ripple & noise shall be less than 2%.

7.3 启动延迟时间(Turn on Delay Time):

输入 230Vac 时,最大启动延迟时间为 5S

The start-up delay time is less than 5S at AC input 230Vac.

7.4 效率(Efficiency):

输入 230Vac 额定带载 56V/600W,效率大于 91%。

The Efficiency above 91% at $V_{in}=230Vac, V_{out}=58V, P_o=600W$;

7.5 反灌电流 (Sink Current):

充电器输入关闭,电池包与充电器输出相连接时,充电器反向漏电流将小于 300uA.

The sink current shall be less than 300 μ A with drawing from battery pack to charger at AC input turn off.

8. 保护功能(Protection Functions):

8.1 短路电路保护(Short Circuit Protection):

充电时输出短路充电器会关闭输出, 短路解除后并重启充电器, 充电器自动恢复工作。

The charger will turn off the output if short-circuit occurred when charging, and the charger will automatically resume normal work after the short-circuit is released and re-powered.

8.2 过流保护(Over Current Protection):

输出过流时充电器锁住无输出,红灯闪烁指示电源故障, 故障排除后即可恢复正常工作。

Charger will stop charging when output overcurrent ,when the fault is removed ,the charger resume to normal work.

8.3 过压保护(Over Voltage Protection):

一级保护: 输出电压超过额定输出电压 3%时, 充电器启动过压保护禁止输出, 故障排除后即可恢复正常工作。

Level-I State protection: when the output voltage exceeds 3% of the rated output voltage, the charger starts the over voltage protection and stops the output.

二级保护: 输出电压超过额定输出电压 6%时, 充电器启动过压保护禁止输出, 故障排除后即可恢复正常工作。

Level-II State protection: when the output voltage exceeds 6% of the rated output voltage, the charger starts the over voltage protection and stops the output.

8.4 反接保护(Reverse Polarity Protection):

当充电电池包正负反接时, 充电器将保护,故障排除后即可恢复正常工作。

When battery pack and charger is reverse connected, the charger will enter into reverse connection protection and

resume normal operation after troubleshooting.

8.5 过温保护 (Over Temperature Protection) :

当充电器的内部温度超过设定值时, 充电器的充电电流降低为额定电流的 2/3; 若温度继续升高超过温度上限值时, 充电器停止充电, 此时指示灯显示蓝色; 当温度降低到设定的最小值时, 充电器自动恢复工作。

When the internal temperature of the charger over the set value, the charging current of the charger is reduced to 2/3 of the rated current, if the temperature continues to rise above the upper temperature limit, the charger stops charging and the indicator LED shows blue, when the temperature drops to the minimum set value, the charger automatically resume normal work.

9. Reliability(可靠性):

9.1 工作温度(Operating Temperature):-20°C~+40°C

9.2 海拔高度(Altitude) :小于 2000m (less than 2000 meters)

9.3 储存温度(Storage Temperature): -20°Cto+85°C

9.4 工作湿度(Relative Humidity): 5%~90%

9.5 振动(Vibration):

9.5.1 标准 Standard: IEC 721-3-7 7M2 (Portable and non-stationary use)

5-9Hz, 幅度 Displacement Amplitude=3.5mm

9~200Hz,加速度 Acceleration=5m/S²

200~500HZ,加速度 Acceleration=15m/S²

9.5.2 标准 Standard: IEC 721-3-2 2M2 (Transportation)

5-9Hz, 幅度 Displacement Amplitude=3.5mm

9~200Hz,加速度 Acceleration=5m/S²

200~500HZ,加速度 Acceleration=15m/S²

9.6 跌落试验(DropTest):

标准 Standard: IEC 721-3-7 7M2 (Portable and non-stationary use)

一个角,三个棱, 六个面 1 corner,3 edges, and 6 surfaces

高度 100cm Height:100cm

9.7 Hi-Pot Test (高压测试)

Primary to Secondary: 3000Vac/10mA Max/ 60S

初级对次级: 3000Vac / 10mA Max / 60 秒

9.8 Insulation Resistance (绝缘电阻)

100MΩ Min. between primary to secondary add 500Vdc test voltage.

在初级与次级间加 500Vdc 进行测试，最小 100MΩ。

10. 结构件(Mechanical Parameters) :

10.1 外壳(Cased):

外壳尺寸: L178*W91.9*H56.5mm Case size: L178*W91.9*H56.5mm

整机重量约: 0.98 千克 Total weight: 0.98Kg

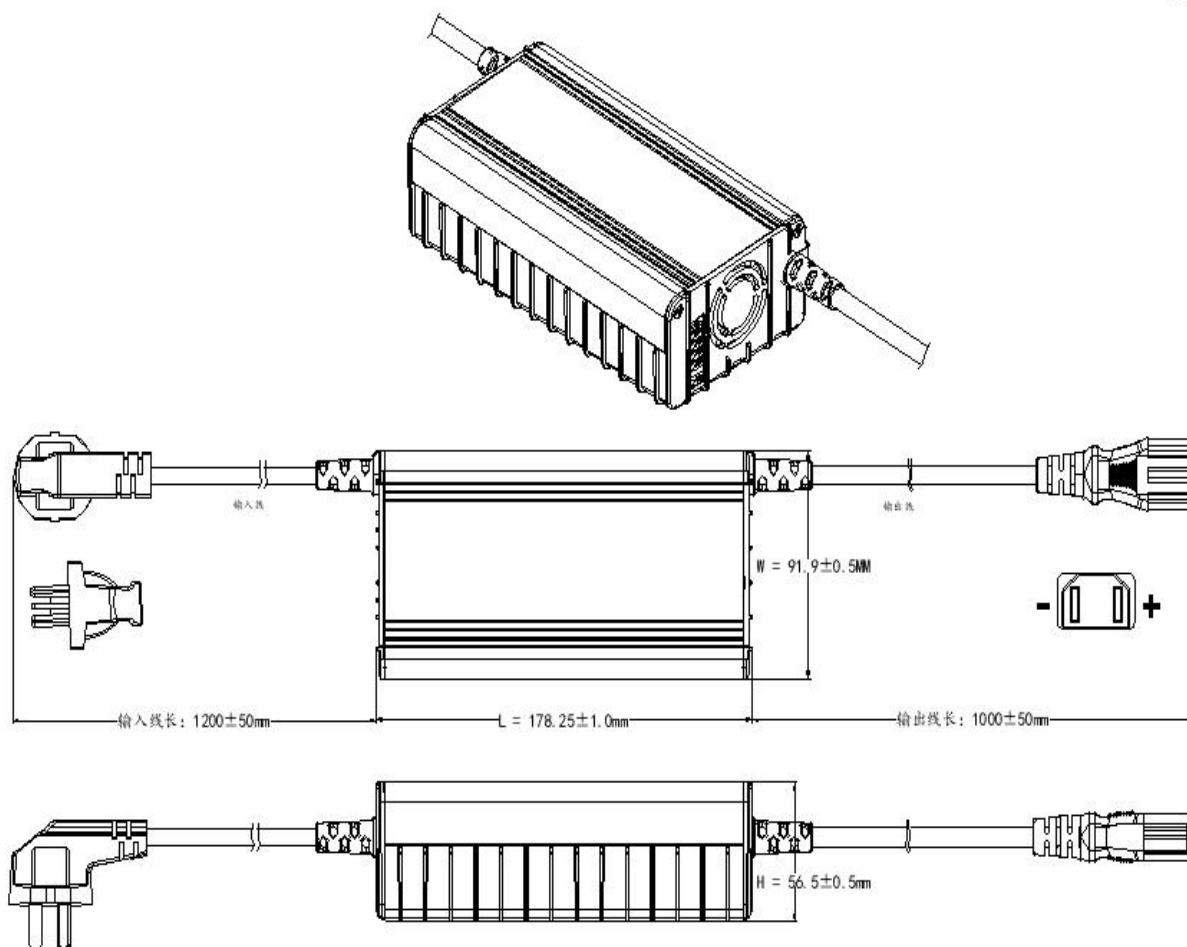
10.2 输入线(Input Cable & AC Inlet):

中规 1200±50mm 0.75mm² *3

10.3 输出线(Output Cable & Connector):

大黑头 1000±50mm 1.5mm² *2

10.4 外观图 (Outside view):



11. 铭牌(Label):

标签仅提供参考，按照实际为准(Only for reference):

待定

12. 包装 (Packing) :

待定