

Aluminum shell

Charger specification

1.概述 An overview of the

1.1 适用范围 Scope of Application

此规格书用于规定锂离子电池充电器的电气、外观、机械特性以及外部环境要求的规格。
This specification is used to specify the electrical, cosmetic, mechanical characteristics and external environmental requirements of the Lifepo4、Li lithium、Lead-acid of dry battery charger.

2.产品特点 Product features

本充电器采用开关电源，可以对锂离子电池进行充电。充电部分采用高精度 DSP 芯片进行控制，充电控制准确，转换效率 93%（最大功率状态），强制风冷。充电指示方式为 3 个 LED，具有防反接、防输出冲击、零输出、防短路、自动激活、过压保护功能。

The charger uses switching power supply, which can charge the lithium-ion battery. The charging part is controlled by high-precision DSP chip, with accurate charging control, conversion efficiency of 93% (maximum power state) and forced air cooling. Charging indicator mode is 3 LED, with anti-reverse connection, anti-output impact, zero output, anti-short circuit, automatic activation, overvoltage protection functions.

3.环境条件 Environmental Conditions

本充电器专用于室内充电 This charger is designed for indoor charging

工作温度 Operating temperature	0℃---40℃	储藏温度 Storage temperature	-10℃---50℃
工作湿度 Working humidity	35%-95%	储藏湿度 Storage humidity	45%-85%
检测温度 Test temperature	25℃±5℃	大气压力 The atmospheric pressure	70-106Mpa

4.电气特性 Electrical characteristics

4.1 交流输入特性。

AC Input Features

4.1.1 电压 AC180V-AC250V，频率 50/60HZ。

Voltage AC180V-AC250V, frequency 50/60HZ.

4.1.2 最大输入功率：1200W(Max)。

Maximum input power: 1200W(Max).

4.2 输出特性 Output Features

4.2.1 空载输出 0V，具有防反接、防输出冲击、自动激活、过压保护、短路停机功能。

No-load output 0V, with anti-reverse connection, anti-output impact, automatic activation, overvoltage protection, Short circuit stop function.

4.2.1.1 反接时所有绿灯每秒跳闪一次，退出防反接自动恢复正常。

During Reverse connection, all green lights blink once per second. The anti-reverse connection automatically returns to normal.

4.2.1.2 对无电压电池有脉冲电压激活，激活后进入正常充电。

Pulse voltage is activated for the non-voltage battery, and it will enter normal charging after activation.

4.2.1.3 有 1 路软件过压保护机制, 2 路硬件过压保护机制, 通过独立的通道采样电压参数, 过压保护动作时充电机关闭输出, 所有指示灯长亮, 直到断开输入重新启动。过压保护超过标称电压的 1/8 动作。

There is one software overvoltage protection mechanism and two hardware overvoltage protection mechanisms. The voltage parameters are sampled through independent channels. When the overvoltage protection action is taken, the charging mechanism shuts down the output and all indicators are on until the input is disconnected and restarted. Overvoltage protection over the nominal voltage of 1/8 action.

4.2.2 输出电压: 最大 117.6V (充电过程中移除电池可测量到最高充电电压)。

Output voltage : Max produce 117.6V(Remove the battery during charging to measure the maximum charging voltage)

4.2.3 输出电流: 最大生产 $20A \pm 0.2A$ 。

Output current: $10A/12A/15A/18A/20A \pm 0.2A$.(10A-20A Choose by requirements)

4.2.4 输出电压纹波 $< 300MV$

Output voltage ripple $< 300MV$

4.2.5 输出电流纹波 $< 500MA$

5 Output current ripple $< 500MA$

4.2.6 充电结束电流: 标称电流 1/8

End charging current: 1/8 nominal current

4.2.7 输入输出头根据需求生产

The output/input plug can do with your requirement, and the line length is around $80CM \pm 2CM$.

- 恒流恒压 涓流充电 **Constant current and constant voltage trickle charging**

5.外观特性 Appearance and characteristics

5.1 尺寸 Size



Charger size

8A/10A : 19.7*10.8*6.9cm
12A : 22.5 *11*7.1cm
15A-20A : 21.8*13*7.9cm

Charger advantage :

- *Overcharge protect
- *Overdischarge protect
- *Overcurrent protect
- *Over temperature protect
- *Prevent reverse connection
- *Zero output voltage
(Zero voltage of the output port when only the power supply is connected and not in use.)



5.2 外观 Appearance

本产品外壳表面无划痕、批峰、污渍、裂缝，五金无生锈。

There is no scratch, peak, stain, crack on the surface of the shell of this product, and no rust on the hardware.

6. 包装 Packaging

6.1 充电器外盒上标明执行标准，适配电池规格，充电器充电电流，最高充电电压，生产日期，生产厂家，警告语，商标，包装内盒附上说明书。

The outer box of the charger is marked with the execution standard, suitable for battery specifications and charging current of the charger. The maximum charging voltage, date of manufacture, manufacturer, warning, label, and package are enclosed the instructions.

7. 贮存 Storage

充电器应贮存在环境温度为-10℃~50℃，清洁、干燥通风的室内，应避免与腐蚀性特质接触，应远离火源及热源。

The charger should be stored in a clean, dry and ventilated room with an ambient temperature of -10℃ ~50℃. Contact with corrosive characteristics should be avoided, and it should be far away from fire and heat sources.

8. 使用注意 Use attention

8.1 警告-禁止对表皮破损的电池进行充电，以免发生电池短路，导致火灾！

Warning - Do not charge the battery with damaged skin, in case of battery short circuit, resulting in fire!

8.1.2 仅限于对可充电锂离子、铅酸、铁锂电池进行充电，若对其它类型的电池进行充电可能会导致爆炸、电池破裂或漏液、人身伤害或财产损失。

Only charge rechargeable lithium/lifepo4/Lead-acid batteries. Charging other types of batteries may

result in explosion, battery rupture or leakage, personal injury, or property damage.

8.1.3 不正确使用充电器则有触电的危险。

There is a risk of electric shock if the charger is not used correctly.

8.1.4 本充电器专用于室内充电，请勿将其暴露于雨中或雪中。

This charger is only used for indoor charging. Do not expose it to rain or snow.

8.1.5 请勿分解或组装充电器。

Mustn't disassemble or assemble the charger.

8.1.6 请勿使充电器落地或将重物置于其上。

Do not land the charger or place heavy objects on it.

8.1.7 儿童须成人的监督下使用本充电器。

Children must use this charger under adult supervision.

8.1.8 须在 0℃~40℃温度范围内使用本充电器。

The charger must be used in the temperature range of 0℃~40℃.

8.1.9 请勿在直射阳光下、发热的设备旁或其他高温场所使用或储存本充电器。避免导致火灾。

Do not use or store the charger in direct sunlight, near hot equipment or other high temperature places. Avoid causing fire.

8.2 在不使用充电器时，请将充电器和电池断开，以免造成电池电量损耗。

Disconnect the charger from the battery when it is not in use to prevent battery power loss.

9. 产品展示 Product display





Display - 0%~100%
Red - With power
Yellow - Charging
Green - Fully charged

Aluminum shell



ABS material

Excellent impact resistance,
heat resistance,
low temperature resistance,
chemical resistance and electrical performance



Note :

Due to the serious copying in the market, the same product may not be produced by us. Please buy from the official