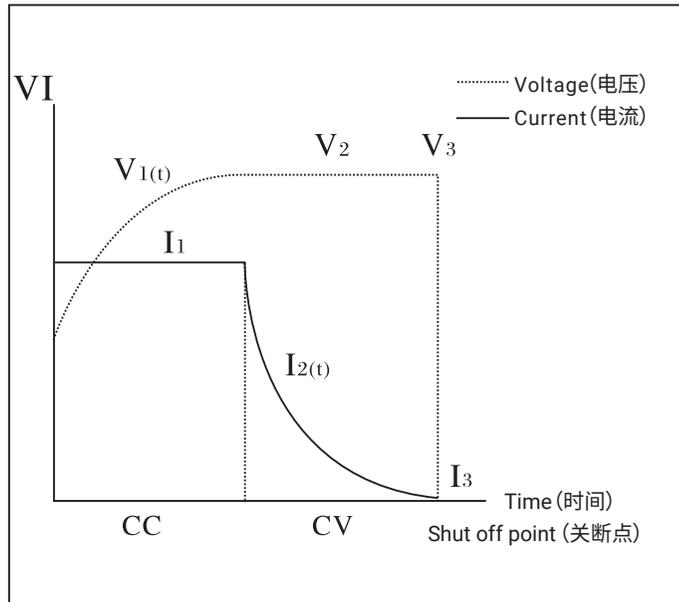


产品型号 Model	KP600A-60L	
产品名称 Product Name	SPIRIT 1.0 Plus Fast Charger H	SPIRIT 1.0 Plus Fast Charger L
最大输出功率 Output Power	576W	576W
最大输出电压 Output Voltage	52.2V	52.2V
输出电流 Output Current	10A	10A
输入电压 Input Voltage	180~260VAC	90~132VAC
规格尺寸 Dimensions	220mmX100mmX68mm	220mmX100mmX68mm

SPIRIT 1.0 PLUS FAST CHARGER MANUAL SPIRIT 1.0 PLUS快速充电器使用说明书

Max Output Power 576W
最大输出功率576W

Suitable for SPIRIT Battery Plus
适用于SPIRIT电池Plus



Lithium battery charging curve
锂电池充电曲线



Please read this manual carefully before use.
使用前请认真阅读此说明书!

A. Features:

1. This charger is configured with reverse polarity, over current, over voltage and short-circuit protections.
2. Reverse polarity protection: for chargers that use a relay for reverse polarity protection, correct the connection and a chargeable battery are the prerequisites for reverse polarity protection.
3. It implements automatic conversion for constant current charging stage and constant voltage charging stage. It cuts off when fully charged without overcharging.
4. LED display: LED1 displays red only; LED2 displays red or green.
LED1 red shows AC power is on; LED1 off shows AC power is off.
LED2 red shows battery being charged; green shows either DC load is not connected or the charger is complete (cut-off for lithium batteries).

B. Operations:

1. This charger is configured for SPIRIT battery plus. To charge other batteries with this charger, consult the manufacturer first.
2. Connect the DC cables to battery terminals.
3. Confirm the charger's AC input voltage level conforms to the local main/grid/AC voltage level. Then connect the charger system to a wall socket strongly. When the LED1 displays red, it means the AC power is on.
4. The charger has over-temperature protection, which shuts down the charger when the internal temperature is above 75°C. In extreme heat conditions of equatorial countries, the charger could enter into a prepetual cycle of suspension(5-10 seconds)and restart. In such cases, it is necessary to take additional measures to reduce environment heat if delay in charge completion is to be avoided.

C. Notices:

1. The charger is configured for SPIRIT battery plus. The charging curve is attached.
2. The charger should be used in well ventilated, dry, particle free environment.
3. The aluminum case is an important means of heat dissipation, thus should not be covered. Do not obstruct the wind/cooling channels.
4. The charger uses intelligent fans controlling system, which only start when LED2 turns red (charging battery).
5. Should the charger not work proper, please follow the check list:
 - * is the battery and charger correctly connected?
 - * is the voltage level appropriate?
 - * is the charger in a protected state? Has the charger entered protection mode?After troubleshooting and fixing the problem, disconnect power for a few seconds, then reconnect to mains. If the charger still does not work properly, please contact manufacturer immediately. Do no attempt to fix the charger without technical support from the manufacturer.
6. Opening the housing of the charger without prior written consent of the manufacturer voids the manufacturer's warranty immediately.

一、本机特点:

- 1.本充电器具有反接保护、过流保护、过压保护、短路保护功能;
- 2.电池保护:电池反接时,充电器自动关断,此时改正反接即恢复;
- 3.恒流、恒压充电过程自动转换,充满自动关断,绝无过充;
- 4.双指示灯显示:LED1——红灯亮为电源开启,红灯灭为电源关闭;LED2——红灯亮为在充电中,绿灯为基本充满进入关断状态或输出端未连接电池。

二、安装使用方法:

- 1.本充电器适配SPIRIT电池Plus,若要给其他电池充电,请先咨询电池厂商;
- 2.连接直流输出线到电池;
- 3.先检查交流电压等级是否相符,然后接上电源,LED1红灯亮;
- 4.本充电器具有过热保护功能,机内温度达到75°C(异常状态)整机自动关闭。夏天,在临界状态下,会反复出现暂停5-10秒、再恢复工作几分钟的情况,这会延长充电时间,此时,可采取外部辅助散热措施。

三、注意事项:

- 1.本充电器适用于SPIRIT电池Plus,电池充电曲线附后;
- 2.充电时,将充电器放置于少尘、干燥和通风的环境下;
- 3.铝质外壳作为散热器,不能被覆盖,避免过热;
- 4.本充电器风扇采用智能化控制,只有在LED2指示灯转红后才启动。
- 5.若充电器无法正常工作,请根据下列检查清单进行检查:
 - * 电池和充电器是否连接恰当?
 - * 电压水平是否合适?
 - * 充电器是否处于受保护状态?充电器是否已经进入保护模式?排查故障并解决问题后,断电数秒钟,然后再重新连接。如果充电器仍然无法正常工作,请立即联系厂商。若无厂商指导,请勿尝试解决问题。
- 6.请勿擅自拆卸充电器,否则保修将失效。

装箱单

- 快速充电器一台
- 输入电源线一根
- 使用说明书一份

Packing List

- Fast Charger x1
- Power Cable x1
- User Manual x1