

产品编号 Product No.	S1C00200	S1C00200N
最大輸出功率 Output Power	400W	400W
最大輸出電壓 Output Voltage	46.2V	46.2V
輸出電流 Output Current	9A	9A
輸入電壓 Input Voltage	180~260VAC	90~132VAC
規格尺寸 Dimensions	200mmX100mmX68mm	200mmX100mmX68mm

KP 400A BATTERY CHARGER MANUAL

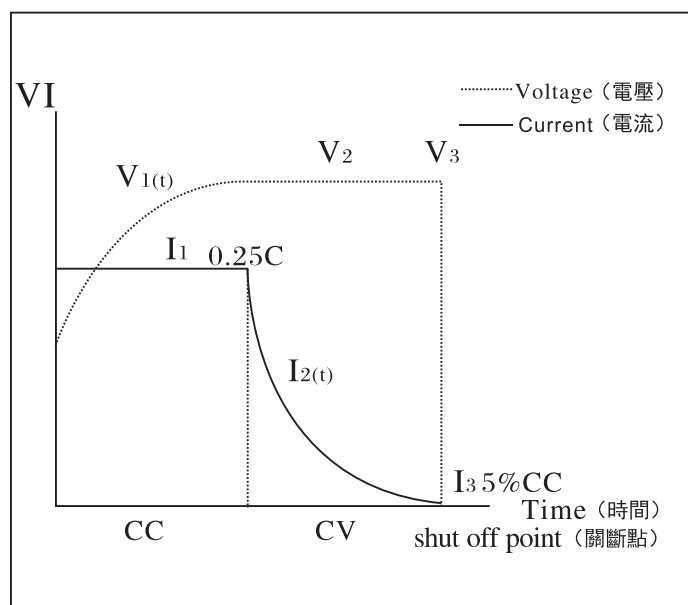
KP 400A 充電器使用說明書

Max Output Power 400W

最大輸出功率400W

Suitable for SPIRIT battery

適用於SPIRIT電池



Lithium battery charging curve

鋰電池充電曲線



Please read this manual carefully before use.

使用前請認真閱讀此說明書！

A. Features:

1. Standard KP chargers are 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 batteries. 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.
4. Turn the switch on, when the LED1 displays red, it means the AC power is on.
5. KP chargers have 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. KP chargers are configured for SPIRIT batteries. The charging curve is attached.
2. The chargers 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. KP chargers 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 manufacutrer 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、本機特點：

1. KP充電器具有反接保護、過流保護、過壓保護、短路保護功能；
2. 電池保護：電池反接時，充電器自動關斷，此時改正反接即恢復；
3. 恆流、恆壓充電過程自動轉換，充滿自動關斷，絕無過充；
4. 雙指示燈顯示：LED1——紅燈亮為電源開啟，紅燈滅為電源關閉；
LED2——紅燈亮為在充電中，綠燈為基本充滿進入關斷狀態或輸出端未連接電池。

二、安裝使用方法：

1. 本充電器适配SPIRIT鋰電池，若要給其他電池充電，請先諮詢電池廠商；
2. 連接直流輸出線到電池；
3. 先檢查交流電壓等級是否相符，然後接上電源；
4. 開啟後擋板上的電源開關，LED1紅燈亮；
5. KP充電器具有過熱保護功能，機內溫度達到75°C（異常狀態）整機自動關閉。
夏天，在臨界狀態下，會反復出現暫停5-10秒、再恢復工作數分鐘的情況，這會延長充電時間，此時，可採取外部輔助散熱措施。

三、注意事項：

1. 本充電器適用於SPIRIT電池，電池充電曲線附後；
2. 充電時，將充電器放置於少塵、乾燥和通風的環境下；
3. 鋁質外殼作為散熱器，不能被覆蓋，避免過熱；
4. 本充電器風扇採用智能化控制，只有在LED2指示燈轉紅後才啟動。
5. 若充電器無法正常工作，請根據下列檢查清單進行檢查：
 - * 電池和充電器是否連接恰當？
 - * 電壓水平是否合適？
 - * 充電器是否處於受保護狀態？充電器是否已經進入保護模式？排查故障並解決問題後，斷電數秒鐘，然後再重新連接。如果充電器仍然無法正常工作，請立即聯繫廠商。若無廠商指導，請勿嘗試解決問題。
6. 請勿擅自拆卸充電器，否則保修將失效。

裝箱單

- | | | |
|----------------|-----------|-----------|
| ● KP 400A充電器一台 | ● 輸入電源線一根 | ● 使用說明書一份 |
|----------------|-----------|-----------|

Packing List

- | | | |
|-----------------|------------------|------------------|
| ● KP Charger x1 | ● Power Cable x1 | ● User Manual x1 |
|-----------------|------------------|------------------|