NPB-450-xxNFC充電器使用手冊

NPB-450 系列NFC版本充電器可使用具有NFC功能的智慧裝置透過APP設定充電曲線等相關參數，使用說明及注意事項請參考下文所述。

● 使用前準備

手機或移動裝置需具支援NFC功能並且安裝有MEAN WELL APP應用程式，如果尚未在移動裝置上安裝該應用程式，請掃描下載：

iOS APP　　**Android APP**　　**Android APP**

● 相容的手機或移動裝置

Android: Android 作業系統4.1(API 16)及以上版本且帶有NFC功能的智慧手機或裝置
iPhone: IOS 12及以上版本的iPhone

● 設定步驟

1. 移動裝置或手機請先下載明緯APP, 並開啟NFC功能。
2. 請開啟您的移動裝置或手機上的NFC。
3. 請先確認手機NFC天線位置, 需將手機天線靠近NPB側板感應區 📶 (<5公分)。
4. 點選明緯APP→左上角選單→安裝手冊/APP→Power NFC，點選NFC並靠近充電器NFC感應位置進行讀取。

5. 感應成功後APP會顯示功能參數，可依您需求調整相關充電參數。
6. 將手機天線靠近充電器NFC感應位置後，點選APP寫入鍵進行燒錄。
7. 手機顯示成功後即完成燒錄。

註：完成上述步驟1~7設定後，再次重複步驟3~4即可讀取並確認調整後的充電器是否已如實完成參數修改。

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● APP功能說明

機型名稱

① 充電曲線參數
恒定电流　25.00 A
恒定电压　14.40 V
浮充电压　13.80 V
渐减电流　2.50 A

② 恒定电流超时　0 min
恒定电压超时　0 min
浮充电压超时　0 min

③ 重新启动充电电压　13.20 V
重新启动充电

④ 充电段数切换　2 stage / 3 stage
⑤ 智能侦压模式
⑥ 密码

⑦ 定址累加
通讯定址　0
0~15

⑧ 原厂预设　　设定 —— 將設定寫入NPB

充電曲線參數：
NPB-450-12　读取
恒定电流　25.00A
恒定电压　14.40V
浮充电压　13.80V
渐减电流　7.50A
充电段数切换　3 stage
智能侦压模式　OFF
DC输出状态　Normal
EEPROM 状态　Normal
韧体版本　010

系統狀態

① 充電曲線可調：
此4項為NPB充電CC、CV、FV、TC設定值，可對此處參數進行修改，滿足實際充電要求
② 調整曲線充電的超時時間：
此3項為NPB使用曲線充電時，CC、CV、FV階段的充電超時保護時間，當設置為 "0" 時，關閉充電超時保護功能，設置為 "1~6000" 時，分別對應超時保護時間為1~6000分鐘。

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③ 充飽後重啟充電的電壓點設定ON/OFF選擇：
在重新開啟充電功能按鈕處於ON狀態時，在充電完成後，當電池電壓跌落到重新開啟充電設定電壓值後，NPB會從CC 階段重啟充電進程；此電壓值可根據實際應用情況進行設定，必須低於浮充電壓設定值。
④ 可選擇2或3段式充電：
此處按鈕可設定2段或3段式充電
⑤ 智能偵壓充電模式ON/OFF選擇：
此處按鈕處於ON狀態時，可開啟智慧偵壓模式，充電器會偵測電池電壓，關於智慧偵壓模式的詳細說明請參考NPB手冊37页相關內容；
若處於OFF狀態，即處於曲線充電模式，此時充電參數的設定生效。
⑥ NFC燒錄密碼設定：
出廠時並未設定密碼，使用者可自行設定，密碼最多可設定為8位元，字元需為數字或英文字母（區分大小寫），不可為特殊字元；密碼設定成功後，後續燒錄操作前需輸入密碼。
⑦ CANBus通訊地址設定：
預設通訊位址為0x00；
可設定NPB機型的通訊位址，設定後最多可支援16台設備進行CANBus多機通訊，可設定位址0～15（0x00～0x0F）；
當定址累加功能處於ON狀態時，後續燒錄的NPB機型通訊位址會依次累加。
⑧ 返回出廠設定：
點擊原廠預設按鈕，可將NPB相關參數恢復到出廠設定；
燒錄按鈕是每次設定參數後進行燒錄的必要操作。

註：1. 詳細功能與參數說明請參考NPB手冊38~42页。
　　2. 智能偵壓僅限用內建BMS(電池管理系統)之鋰電池。

● 注意事項

1 讀取及燒錄參數時有無接AC電力均可，帶電燒錄參數不會即時生效，需斷電重啟才能生效。
2 若忘記燒錄密碼，可通過硬體方式恢復出廠設定來重置密碼，具體設定方式請參考NPB手冊Page 43關於恢復原廠設定的說明。

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使用手冊　　NFC 操作影片

● 常見問題

狀態	排除方法
APP提示當前NFC關閉 当前NFC关闭 通讯定址	請在手機或智慧裝置設置中先打開NFC功能，並重新打開APP
APP提示 '無法辨識的機型名稱' 或 '設定失敗' 無法辨識的機型名稱 通讯定址 定址累加　通讯定址 0　原厂预设　设定　設定失敗	請確認NFC天線位置，需縮短感應距離<5cm內，重新按照Page 1設定步驟重新進行操作
APP提示 '手機NFC不可使用' 手机NFC不可使用 通讯定址	請更換支援NFC功能的手機或智慧裝置後再次嘗試

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NPB-450-xxNFC User Manual

The NPB-450 series chargers with NFC technology are designed to interact with NFC-enabled mobile devices. This allows users to configure charging curves and related settings conveniently by using the MEAN WELL app. To learn more about how to use it, please refer to the following guide.

● Before usage:

Make sure your mobile phone or tablet is equipped with NFC function before installing the MEAN WELL app. You can get the app from Google Play and App Store or simply scan the QR codes.

| iOS APP | Android APP | Android APP |

● Compatibility:

Android devices: requires Android OS 4.1 (API 16) or later
iPhone: requires IOS 12.0 or later

● How to use:

1. Download the MEAN WELL app and activate NFC function if android devices.
2. Open the app and then tap "Power NFC" button to start scanning for tags.Location of "Power NFC" button: tap the "manual icon" in the upper left corner on the main page of the app tap "Installation Manual/APP" button you will see it just sits on the bottom.
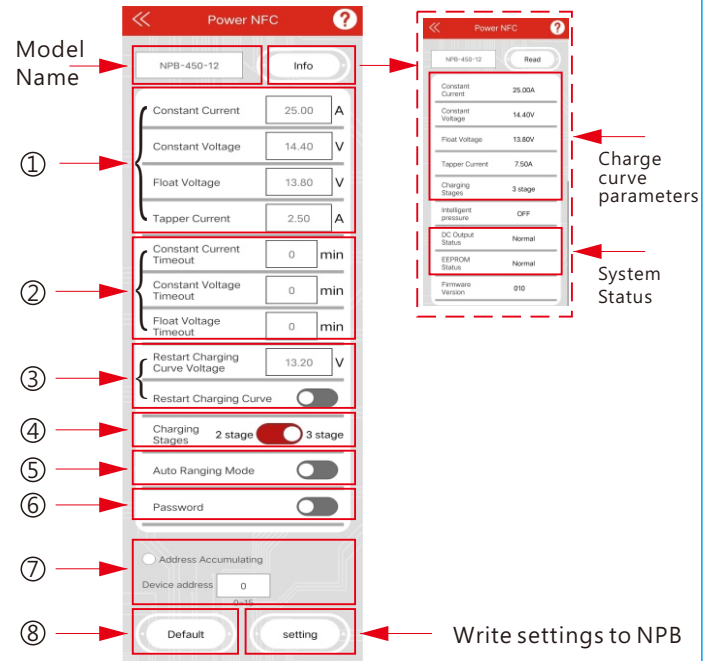
3. Hold the device near (< 5cm) the NFC Tag 📶 of the charger.
   For iPhone, hold the top-center of your phone onto the Tag
   For Android, place backside-middle of the phone onto the Tag. If it doesn't work you may refer to its instruction manual.
4. Upon read, it will bring you to the setup page to let you edit charging parameters.
5. Tap "Setting button" to update data into the charger after edition.
6. The device will begin scanning for tags again. Hold the device near the NFC Tag, your device will make a sound and/or vibrate when it is officially encoded.
7. You charger is ready to work.

Note: After completing steps 1-7 above, repeat steps 3-4 again to read and confirm whether the adjusted charger has truly completed parameter modifications.

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● APP Function Description

① Charge curve is adjustable :
   These four items are set values for NPB charging CC.CV.FV.TC, which can be modified to meet the actual charging requirements.

② Setting the timeout time for curve charging:
   These 3 items are the charging timeout protection time for CC, CV, and FV stages when NPB uses curve charging. When the value is set to "0", the charging timeout protection function is disabled. When the value is set to "1-6000", the corresponding charging timeout protection time is 1-6000 minutes.

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③ Set the voltage point for restarting the charge after full charging ON/OFF selection:
   When the restart charging button is in the open state, after the completion of charging, when the battery voltage drops to the restart charging set voltage value, NPB will restart the charging process from the CC stage; This voltage value can be set according to the actual application and must be lower than the FV setting value.

④ 2 or 3 stage charging options:
   The button here can set 2-stage or 3-stage charging.

⑤ Auto ranging voltage detection charging mode ON/OFF selection:
   Here, when the button is in the ON state, the auto ranging voltage detection mode can be turned on, and the charger will detect the battery voltage; For the detailed description of the auto ranging voltage detection mode, please refer to the relevant content of NPB manual Page 37;
   If it is in the OFF state, that is, it is in curve charging mode, and the setting of charging parameters takes effect at this time.

⑥ NFC burning password setting:
   The password is not set before delivery. The user can set the password by himself. The password can be set to a maximum of 8 characters, and the characters must be digits or English letters (case sensitive), not special characters. After the password is set successfully, the password needs to be entered before the subsequent burning operation.

⑦ CANBus address setting:
   The default communication address is 0x00;
   Can set the communication address of NPB model, after setting up to 16 devices to support CANBus multi-machine communication,Can set the address 0~15(0x00~0x0F);
   When the address accumulation function is turned on, the communication address of the NPB model will be accumulated in turn.

⑧ Return to factory Settings:
   Click the original preset button to restore the NPB parameters to factory Settings; The burning button is the necessary operation for burning after each parameter setting.

Note:
1. Please refer to NPB manual page 38-43 for detailed function and parameter description.
2. Intelligent voltage detection is only applicable to lithium batteries with built-in BMS(Battery management system).

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● Attention:

1. Read and burn parameters can be AC or not, when the AC is powered on burning operation, parameters will not take effect immediately, only power off and restart to take effect.
2. If you forget to burn the password, you can reset the password through the hardware mode to restore the factory Settings, the specific setting method, please refer to the NPB manual Page 44 on restoring the original factory. Settings;

User's Manual   NFC Video

● Frequently Asked Question

State	Troubleshooting
The APP prompts that 'The current NFC is closed'. The current NFC is closed	Open the NFC function in the Settings of the smart device and open the APP again.
The app prompts that 'Unrecognized model name' or 'Setting failed'. Unrecognized model name Device address Address Accumulating Device address Setting failed Default setting	Confirm the NFC antenna position, shorten the sensing distance(<5cm), and re-operate according to the steps set on Page 1.
The app prompts that 'Mobile phone NFC is not available'. Mobile phone NFC is not available Device address	Please use a smart device that supports NFC and try again.

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