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.
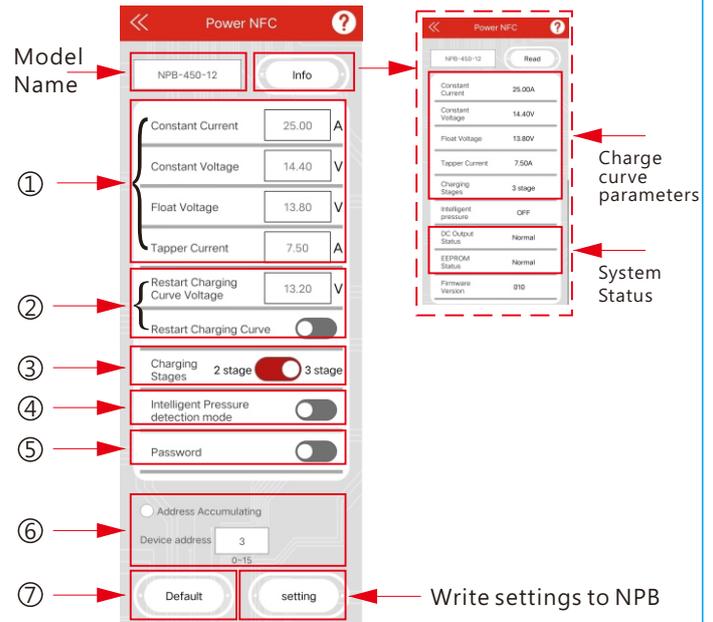

3. Hold the device near (< 5cm) the NFC Tag of the charger.
   For iPhone, hold the top-center of your phone onto the Tag
   For Android, place backside-middle of the phone onto the Tag. If it doesn't work you may refer to its instruction manual.
4. Upon read, it will bring you to the setup page to let 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.

1

● APP Function Description

Model Name
Charge curve parameters
System Status
Write settings to NPB

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 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.

2

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

④ Intelligent voltage detection charging mode ON/OFF selection:
Here, when the button is in the open state, the intelligent voltage detection mode can be turned on, and the charger will detect the battery voltage;
For the detailed description of the smart voltage detection mode, please refer to the relevant content of NPB manual Page 36;
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.

⑤ 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.

⑥ 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.

⑦ 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 page36-42 for detailed function and parameter description.
2. Intelligent voltage detection is only applicable to lithium batteries with built-in BMS(Battery management system).

● 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.

3

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 36 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.

4