



Force H3X SOP (PylontechPro)

Information Version: 1.0
5PMPA08-00XXX

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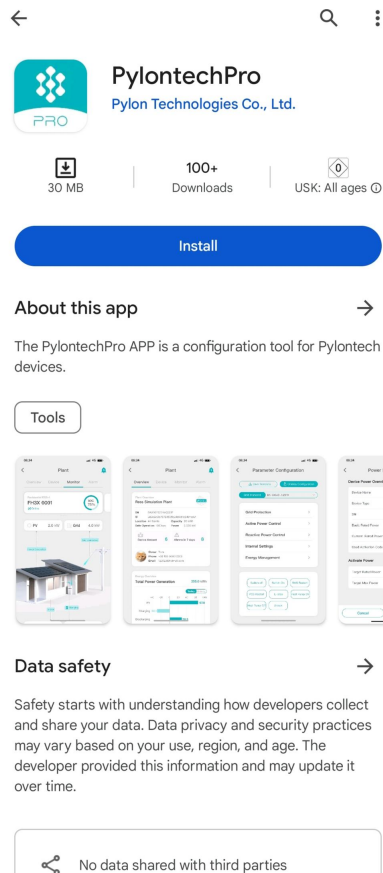
The final interpretation of this manual belongs to Pylon Technologies Co., Ltd.

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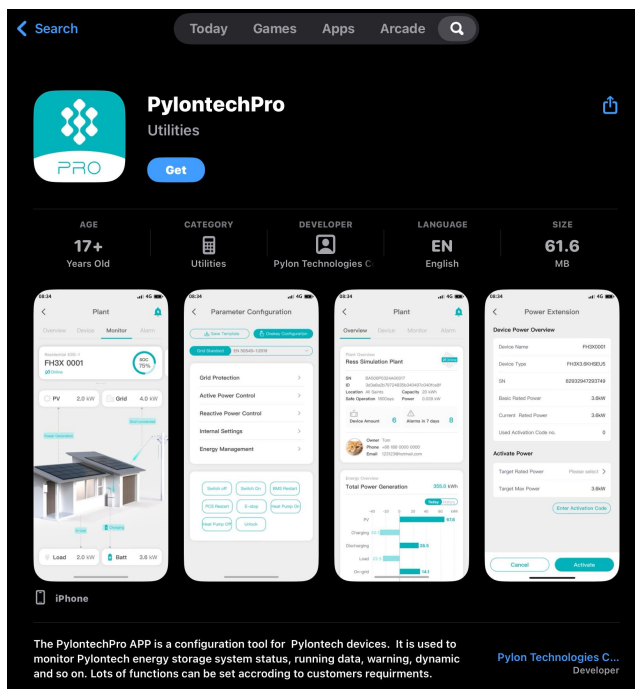
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1 Download and install the PylontechPro App

For Andriod, search for PylontechPro in Googleplay.



For IOS, search for PylontechPro in APPstore.



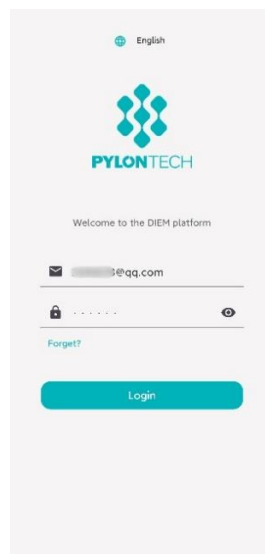
2 Login

2.1 Obtain account

Please contact the person in charge of your organization to obtain an account.

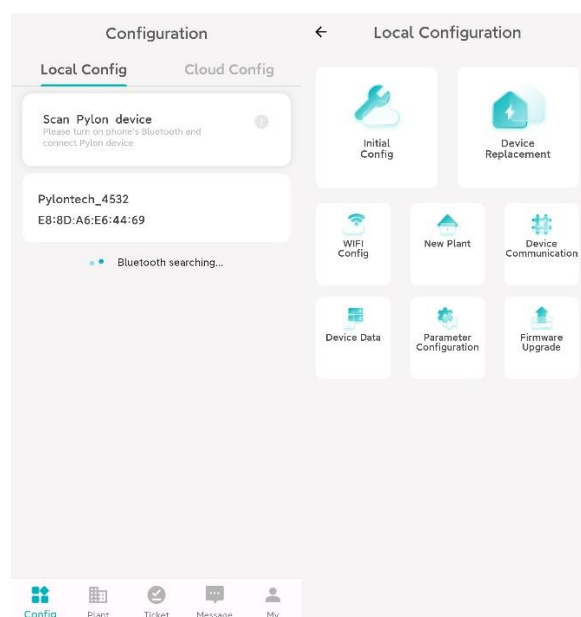
2.2 Login

Open the PylontechPro App, enter the login page. Enter your email and password (we have provided), click Login to access the system.



3 Local config

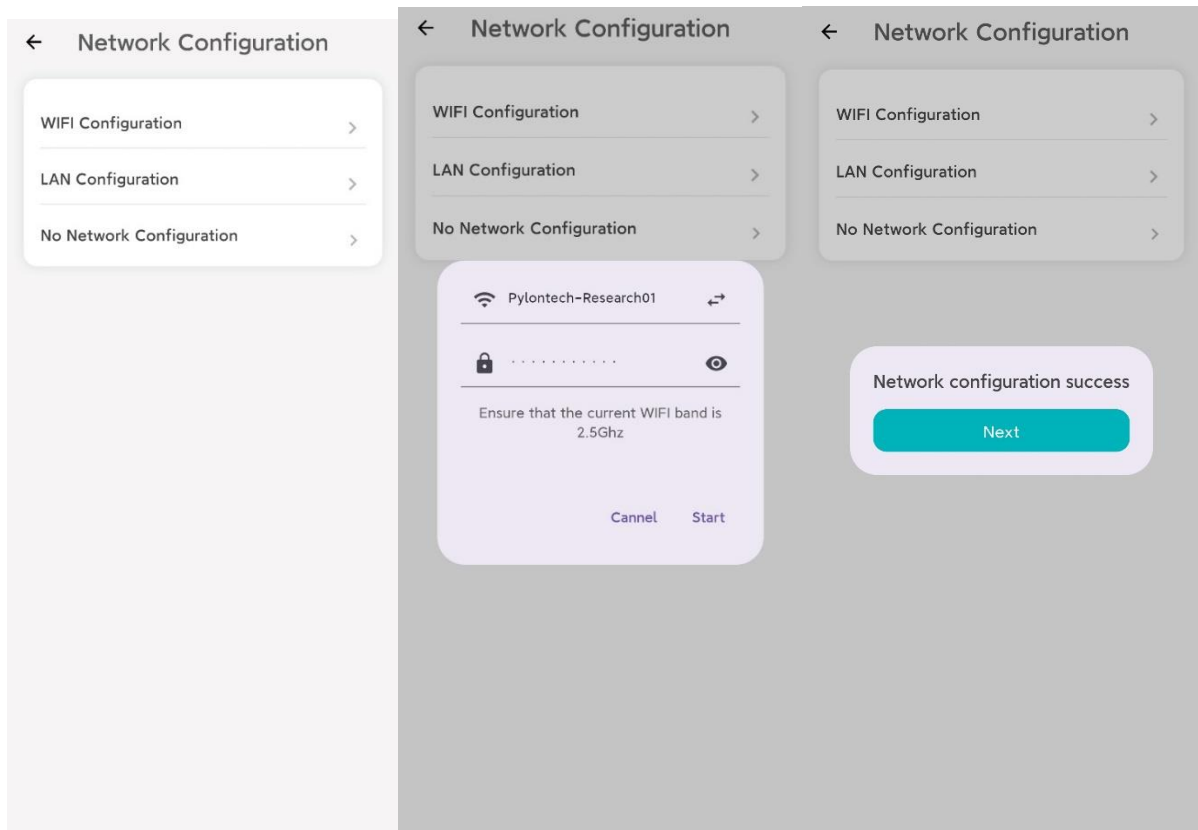
After confirming the device is powered on. The App will automatically search for Bluetooth of nearby devices, you can select the corresponding device and enter the “**Local Configuration**” interface.



3.1 Network configuration

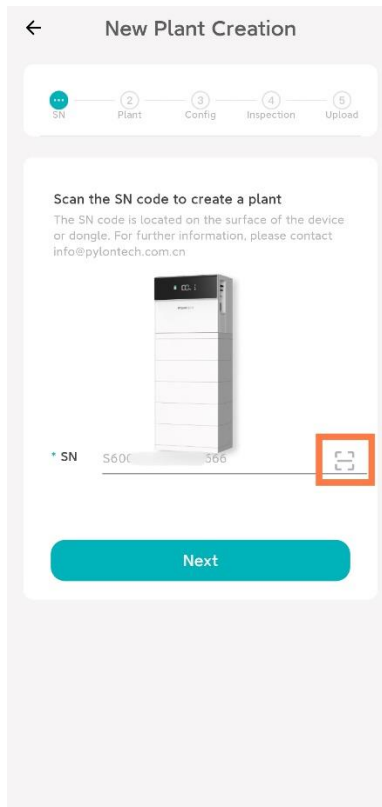
After selecting the “**Initial Config**” in the above interface, select the corresponding network config method according to the connection situation of the device (WIFI Configuration is usually recommended).

Then entering the account and password of the home WIFI (if the phone is connecting to the WIFI at this time, the app may automatically read the account the WIFI and display it). Click ‘Start’ and wait. After displaying ‘Network configuration success’, click ‘Next’.



3.2 New plant Creation

1. By clicking the icon on the right side of the input box, you can scan the **QR code** on the device label to show the device SN number automatically. Or you can type it by yourself. You can copy and paste the SN number after finishing plant creation.



2. Click 'Next' to enter to the **plant information** Interface, please type or select the relevant information according to the actual situation of the equipment. After finishing plant creation, the terminal users can modify again in the PyHome app.

3. Click 'Next' to enter the **configuration interface**, It is essential to apply the following necessary settings, or the device cannot work normally. Only after you expand all options, the 'Next' can be click.

For the five options displayed on the page. 'Inverter time' is not to be cared and it will be automatically changed to the current time after the plant creation complete.

For the 'Grid/meter Settings', you only need to check the 'Meter Type' is right (three-phase is Meter(3P), single-phase is CT(1P)). The 'Power to Grid' and 'Power from Grid' can be set according to the rated power of your device.

For 'Set battery parameters', the two parameters can be set as you want. 'Discharge limited SOC' is the minimum value of the system discharging, 'Charge limited SOC' is the maximum value of the system charging.

For the 'Set the working mode', you can set one mode as you need. About the specific differences of every work mode, you can see '**6.2.3 Working Mode**' in the user manual.

For 'Other', the 'Backup Enable' can be set as users need, if you choose 'Enable', the backup

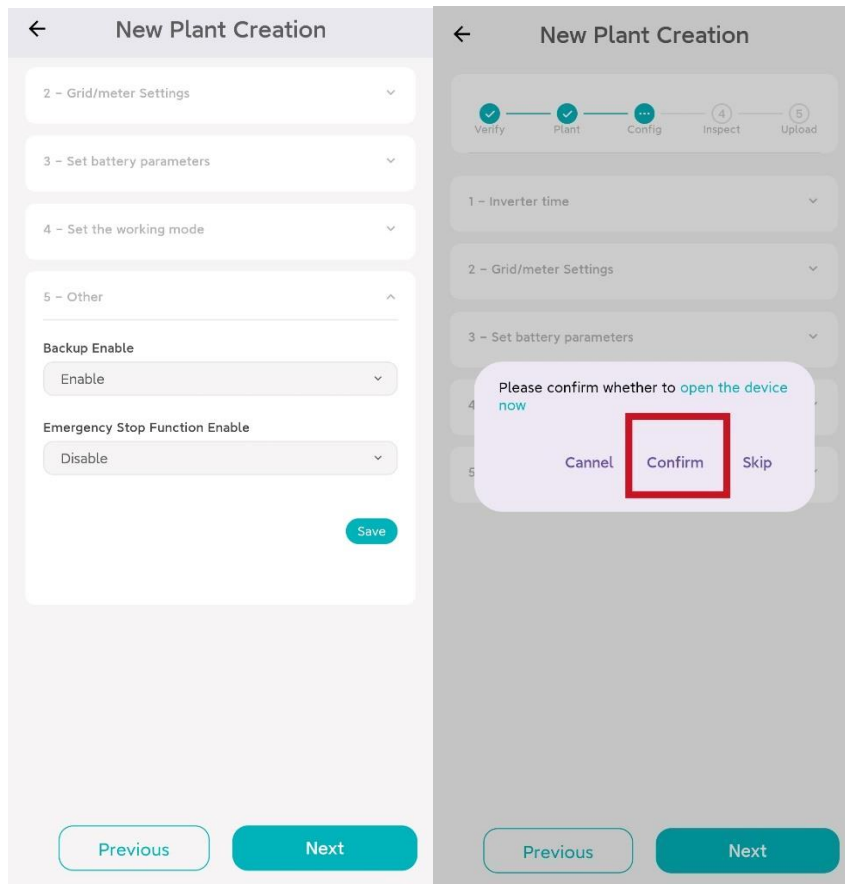
load will work normally. The 'Emergency Stop Function Enable' should 'Disable', only the device has something wrong, it can be set enable.

If you have modified one parameter, please click 'Save'.

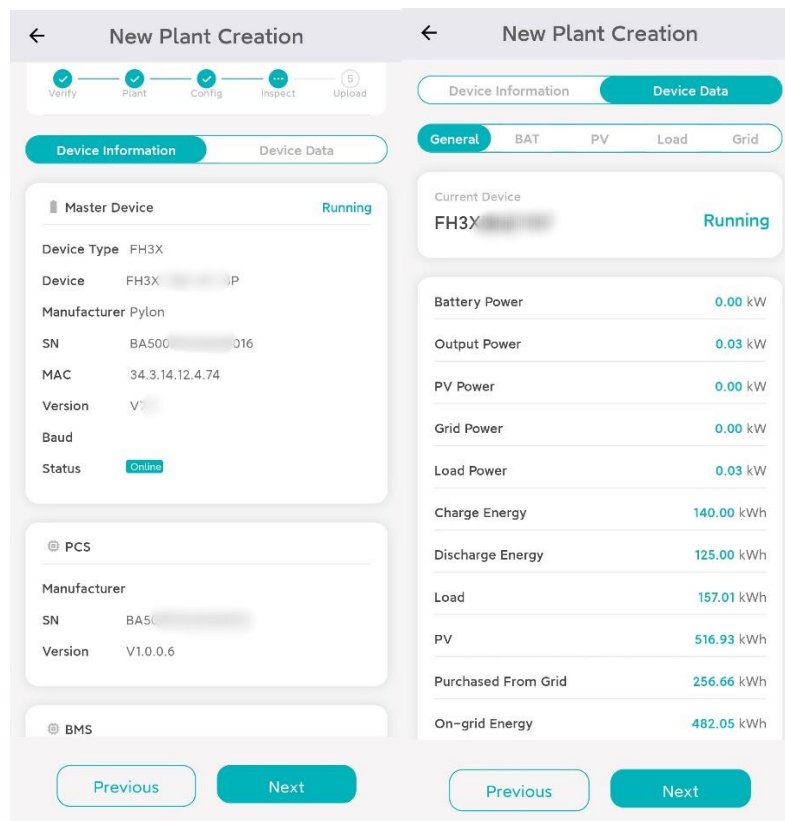
The image shows a configuration interface for a device, divided into four main sections:

- 2 - Grid/meter Settings**:
 - Grid Standard: EN 50549-1:2019
 - Meter Type: Meter (3P)
 - Power to Grid: 15000 W (range 0-15000W)
 - Power from Grid: 60000 W (range 0-15000W)
 - Three-phase imbalance mode: Minimum phase active power control
 - Save button
- 3 - Set battery parameters**:
 - Discharge Limited SOC: 10 %
 - Charge Limited SOC: 100 %
 - Save button
- 4 - Set the working mode**:
 - Work Mode: Self-Consumption (dropdown menu is open showing options: Self-Consumption, Backup, Full Off-Grid, Feed in priority, User mode)
 - Save button
- 5 - Other**:
 - Backup Enable: Enable
 - Emergency Stop Function Enable: Disable
 - Save button

- After checking out all parameters, you can click 'Next'. And then you will receive a message as shown in the below. Please click '**Confirm**', then all the relays will work, when the sound of relays closing over. The device start running now.



- Then users need to check the device information, where you need to confirm that the communication status is online (if the network config has been completed), and confirm there is no abnormal data of other parameters (battery, grid, PV, etc.). Then click 'Next'.



6. Finally, it is recommended to upload the actual pictures according to the user's plant condition, so as to facilitate the maintenance later. After uploading, click 'Next', all the initial settings of the device & plant will be **completed**.

The image displays two side-by-side screenshots of a mobile application interface titled "New Plant Creation".

Left Screenshot (Upload Step):

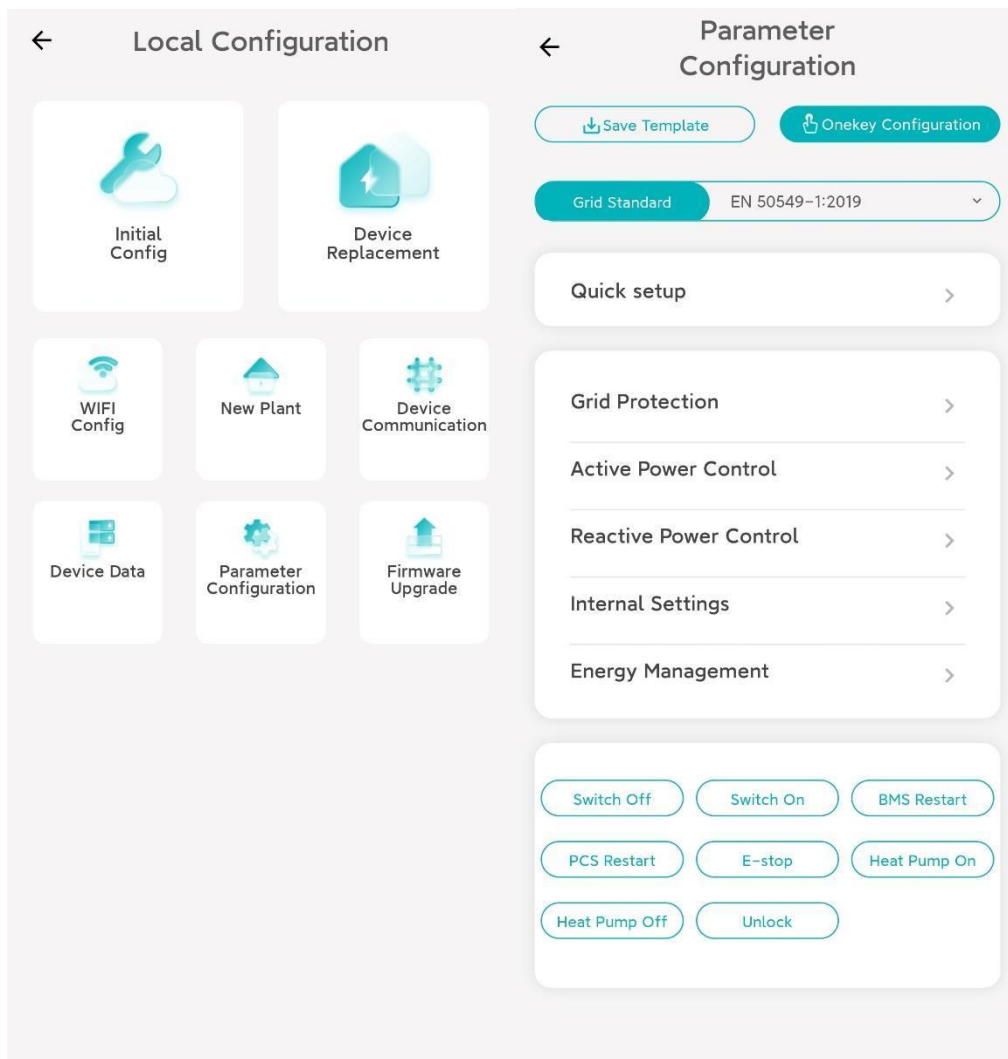
- A progress bar at the top shows five steps: Verify, Plant, Config, Inspect, and Upload. The "Upload" step is currently active, indicated by a teal circle with a checkmark.
- Below the progress bar, there is a section labeled "Current battery cabinet" with a text input field containing "SN" and "BA50".
- Below that, there is a section titled "Please upload the plant layout photos" with a subtext "Upload the plant layout photos for further maintenance." and a placeholder image with a plus sign.
- At the bottom of this section is a "Comments:" label followed by a text input field with the placeholder "Please enter comments".
- At the very bottom, there are two buttons: "Previous" (outlined) and "Next" (solid teal).

Right Screenshot (Complete Step):

- The progress bar at the top shows all five steps (Verify, Plant, Config, Inspect, Upload) completed, each with a teal circle and checkmark.
- Below the progress bar, there is a message: "Congratulations! You have created the plant." followed by a smaller text: "Click 'Complete' to return to the main menu".
- In the center, there is a large smiley face icon with a teal checkmark.
- At the bottom, there is a large teal button labeled "Complete".

3.3 Parameter Configuration

1. When finishing the plant creation, you can exit and enter to 'Parameter Configuration' to config all parameters.
2. Users can config the parameters in the 'Quick setup'. The specific steps are the same as the above 3.2-3.
3. Also, in the specific options, the following two can be modified.



(1) Active Power Control

In this page, you need to do the following settings and do not change other options.

- ① Select "Active Power Control Mode" as meter/CT;
- ② The 'Power to Grid' represents the upper limit of system feed-in power, you need to set the value according to rated power and the local safety standard, note that the value must be more than 0. If the value you set exceed the upper limit, it will be automatically limited to the upper value.
- ③ If the machine is three-phase, select "Meter Type" as Meter(3P); if the machine is single-phase, select 'Meter Type' as CT(1P).

← Active Power Control

Fixed Active Power ^

Active Power Control Mode

Meter/CT v

Power to Grid

15000 W

Meter Type

Meter (3P) v

System Limit Power

1000 W

Meter limit mode

Total Three Phase Active Power Control v

Total Three Phase Active Power Control

Minimum phase active power control

(2) Energy Management

All following settings are available to set by the terminal user.

- ① Select "System with/without Battery" as With Battery; 'Work Mode' and 'Backup Enable' as the user needs to select;
- ② The "Discharge Limited SOC" means the discharge limit of the battery. E.g setting the value as 30%, the load or grid could gain electric from battery only when the SOC more than 30%.
- ③ On the contrary, the "Charge Limited SOC" means the charge limit of the battery.
- ④ The 'Power from Grid' indicates the upper limit of power taken from the grid, which should be changed based on the actual demand.
- ⑤ Charge/discharge time can be set independently according to the user's demand, a total of four time periods can be set. Each time period can be set independently of the start and end time, charge/discharge, power, and repetition time. You can set open or close at the 'State' with the user's demand.

For all of the above parameters, if you have changed one, please click 'Save'.

←

Energy Management

Energy Configuration

^

System with/without Battery

With Battery

▼

Save

Work Mode

Self-Consumption

▼

Save

Backup Enable

Enable

▼

Save

Discharge Limited SOC

10

%

Save

Charge Limited SOC

100

%

Save

Power from Grid

60000

W

Save

←

Energy Management

Charge/Discharge Time Control

^

Time Period

Charge/discharge time set 1

▼

Start Time

00:00

End Time

23:59

Charge/Discharge Power

50.0

%Pn

Charge/Discharge Mode

Charge

▼

Repetition Time

Sunday, Monday, Tuesday, Wednesday, Th...

▼

State

Closed

▼

Save

Subsequently, the user can scan the QR code of the device directly by the Pylontech APP to enter this plant. The user also can edit part of the plant information and the energy management control according to the demand.



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