

## MATERIAL CHECKLIST

Please ensure you pick up the following from the ASB Warehouse:

| Pick up From ASB Warehouse                                                   |                                  |
|------------------------------------------------------------------------------|----------------------------------|
| 1 Pair of Battery MC4                                                        | Every Job                        |
| Waterproof head for RJ45 BMS com cable                                       | Every Job                        |
| 1 x CT, Change Over Switch                                                   | Single Phase Job                 |
| Smart Meter with 6 CT, Chang Over Switch                                     | Three Phase House                |
| Bollard                                                                      | If required in garage            |
| Shade                                                                        | If required facing north or west |
| Extension fitting bracket                                                    | If battery is far from the wall  |
| Self Prepared Items or Tools                                                 |                                  |
| RCBOs for Backup load                                                        | Installer's Expense              |
| Cabling and Conduit between meters, batteries and solar panels (DC coupling) | Installer's Expense              |
| Non-combustible cement sheet                                                 | Back Charge to ASB               |
| Concrete base for soft or uneven surface                                     | Back Charge to ASB               |
| Wireless smoke alarm                                                         | Back Charge to ASB               |
| Extension Meter Box                                                          | Back Charge to ASB               |
| Please also ensure you have crimpers ready to crimp MC4 plugs and RJ45 head  |                                  |

**Warehouse Address: Unit 4, 142 Jame Ruse Drive Rosehill NSW 2142**

Opening Time:

- Monday to Friday: 7am – 7pm
- Saturday: 7am – 12am
- Sunday: Upon request & by appointment

**Technical Support:** Lichao 0414 945 058 (Weekdays) / Sunny 0406 927 802 (Weekends)

**Job Coordination:** Pls contact via whatsapp group / Steven YU 0408 898 656

**Sales Enquiries:** 1800 975 270

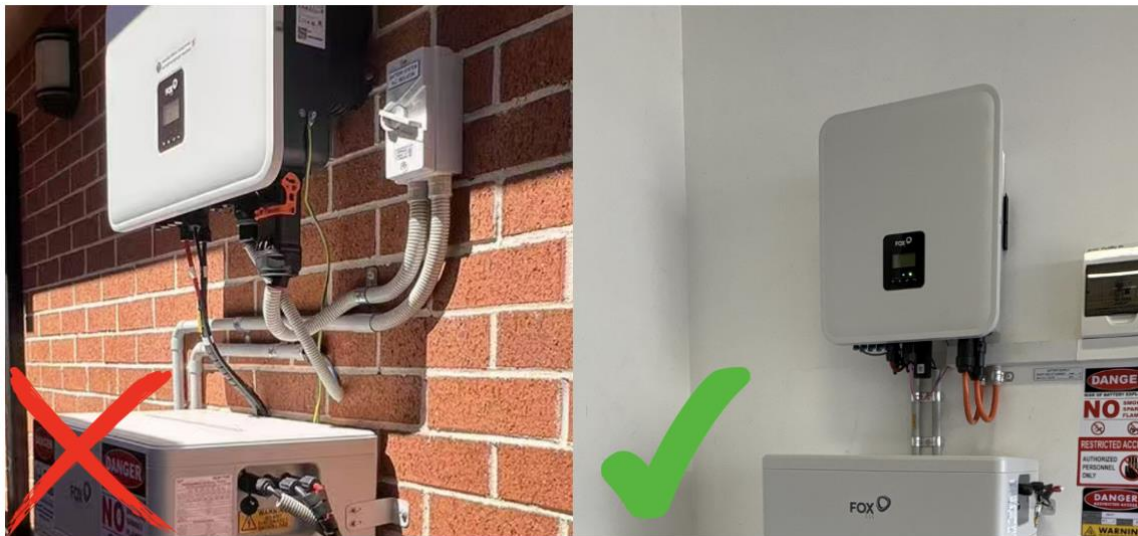
**Accounts & Payments:** [account@solarsystemaus.com.au](mailto:account@solarsystemaus.com.au)

## INSTALLATION NOTE

### 1. Positive and Negative Cable between batteries and inverter must be cut short and placed in conduit:

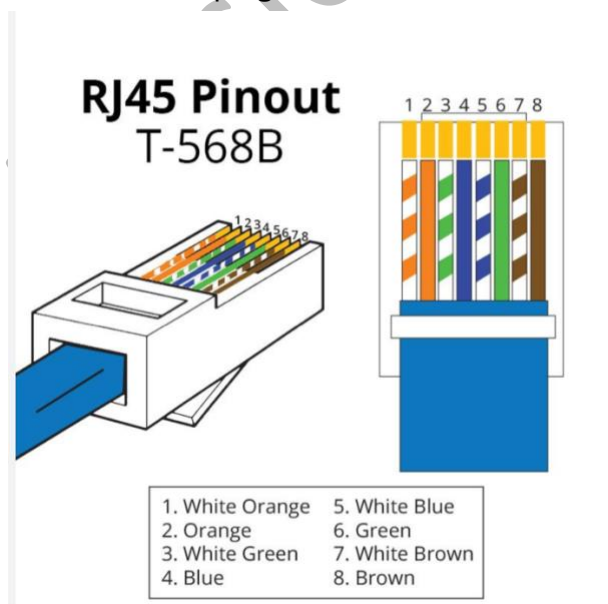
- The cable from the box is 3 meters long, must be cut 2 meter or shorter
- Re-crimp the cut end with the MC4 provided by ASB

**! This connection cable carries 400v power, must be placed in conduit for SAFETY!**



### 2. Com Cable between Battery and Inverter must add a waterproof cap, re-crimped in a T568B sequence, and plugged into BMS port

- Measure and cut the cable to a suitable length;
- Placed both waterproofing caps on;
- Re-crimping the cut side in a T568B order



### 3. Initial Setup & Firmware Inverter Upgrade

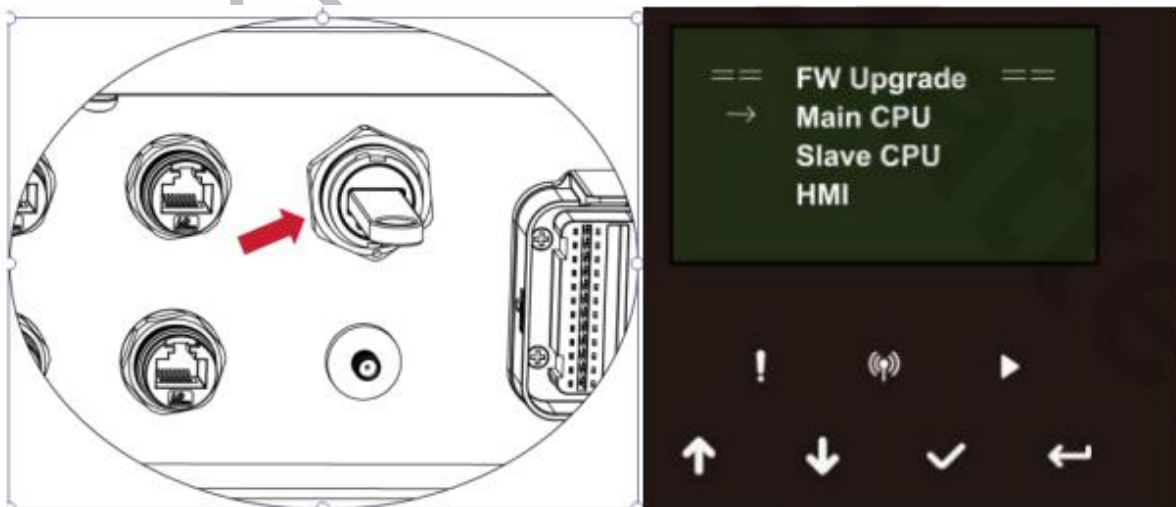
STEP 1 - Press ✓ to enter the menu:

- Time
- On Grid – Safety – AS4777A (**NOT** Austria)

STEP 2 – Insert the correct USB Drive into the bottom of the Inverter



STEP 3 – Press ✓ to upgrade **Main CPU** and then **HMI**. Once the update is completed the inverter will restart.



## 4. Setup & Commissioning

Press  to enter the menu:

- Setting – Password 0000 – Feature

|                        | Single Phase Inverter                 | Three Phase Inverter                  |
|------------------------|---------------------------------------|---------------------------------------|
| Single Phase Household | Meter /Meter 2: CT/CT                 | /                                     |
| Three Phase Household  | Meter /Meter 2: Meter_3P/<br>Meter_3P | Meter 1 / Meter 2:<br>Enable / Enable |

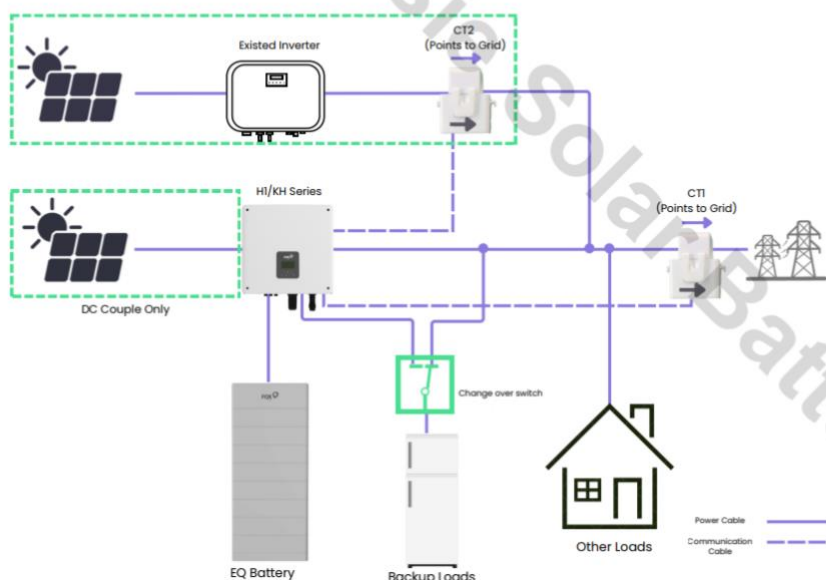
Smart Meter and CT Orientation

|                        | Single Phase Inverter                       | Three Phase Inverter                        |
|------------------------|---------------------------------------------|---------------------------------------------|
| Single Phase Household | 2 x CT – facing grid                        | /                                           |
| Three Phase Household  | Smart Meter & 6 x CT –<br>facing house load | Smart Meter & 6 x CT –<br>facing house load |

### Recommended Option:

Single Phase Storage in Single Phase Site

**Solution: H1/KH + 2CTs**



- Comm Port Definition For H1/KH Series



| Pin | 1          | 2          | 3    | 4    | 5          | 6            | 7            | 8          |
|-----|------------|------------|------|------|------------|--------------|--------------|------------|
| Def | Meter 485A | Meter 485B | 485B | 485A | CT2+ (Red) | CT2- (Black) | CT1- (Black) | CT1+ (Red) |

\*For both Meter 1 and 2, 485A cables go to pin 1, 485B cables go to pin 2

- Enable Meter2 from Display

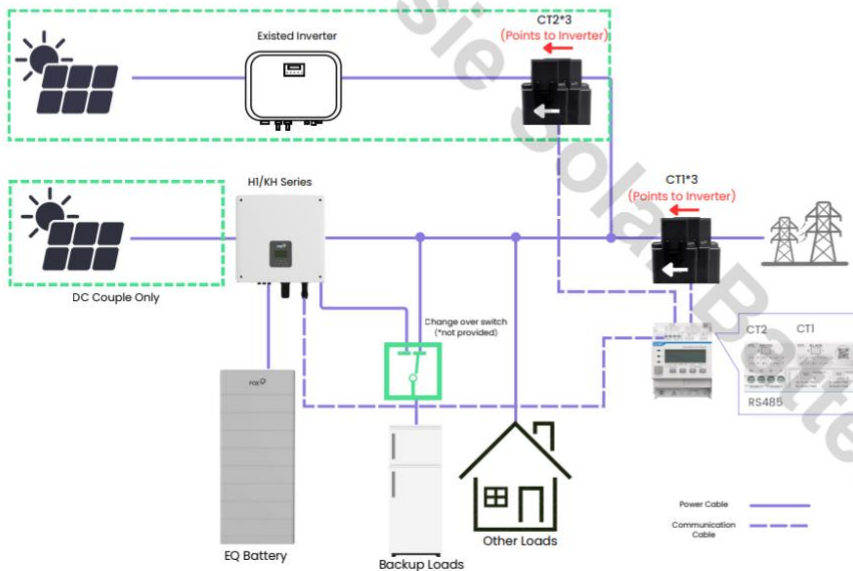


- CT points to Grid

### Recommended Option:

## Single Phase Storage in Three Phase Site

**Solution: H1/KH + 6CTs Meter (Three Phase)**



- Comm Port Definition For H1/KH Series



| Pin | 1             | 2             | 3    | 4    | 5    | 6    | 7    | 8    |
|-----|---------------|---------------|------|------|------|------|------|------|
| Def | Meter<br>485A | Meter<br>485B | 485B | 485A | CT2+ | CT2- | CT1- | CT1+ |

\*For both Meter 1 and 2, 485A cables go to pin 1, 485B cables go to pin 2

- Enable Meter2 from Display



\*KH HMI Ver. ≥ 1.49

\*H1 HMI Ver. ≥ 1.60

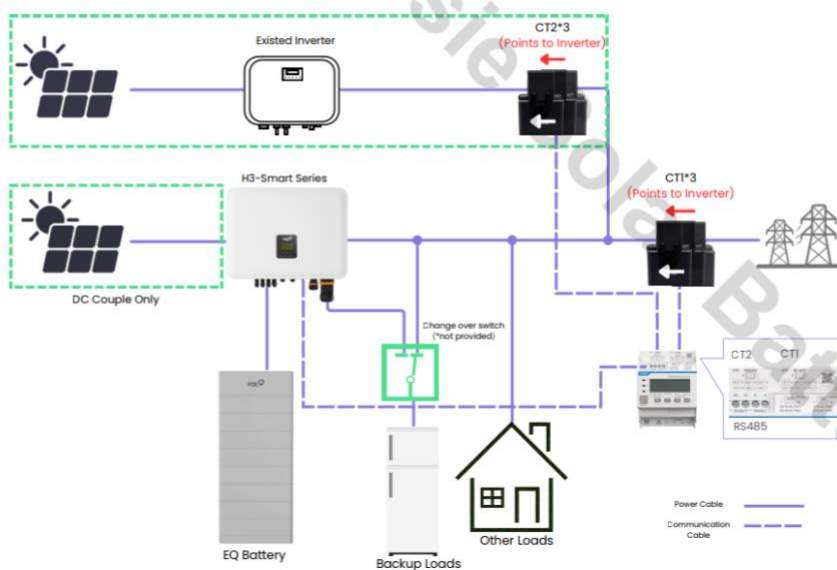


- CT wiring to each phase:  
L1-Yellow; L2-Green; L3-Red
- CT points to Inverter

### Recommended Option:

### Three Phase Storage in Three Phase Site

**Solution: H3 Smart + 6CTs Meter (Three Phase)**



- Comm Port Definition For H3-Smart Series



Meter485A: 11  
Meter485B: 12

\*For both Meter 1 and 2, 485A cables go to pin 11, 485B cables go to pin 12

- Enable Meter2 from Display



\*H3 Smart  
HMI Ver. ≥1.15



- CT wiring to each phase:  
L1-Yellow; L2-Green; L3-Red
- CT points to Inverter

## 5. Smart Meter Checking for Three Phase House

Meter I – PA, PB, PC

- Step 1 – Turn **OFF** ALL PV Inverters & Batteries and ask customer to turn on all house loads;
- Step 2 – Navigate by pressing  until 'I' appear in the left hand corner
- Step 3 – Keep pressing arrow button until you find PA, PB and PC
- Step 4 – if the reading for PA, PB and PC are all positive, meaning system is normal.

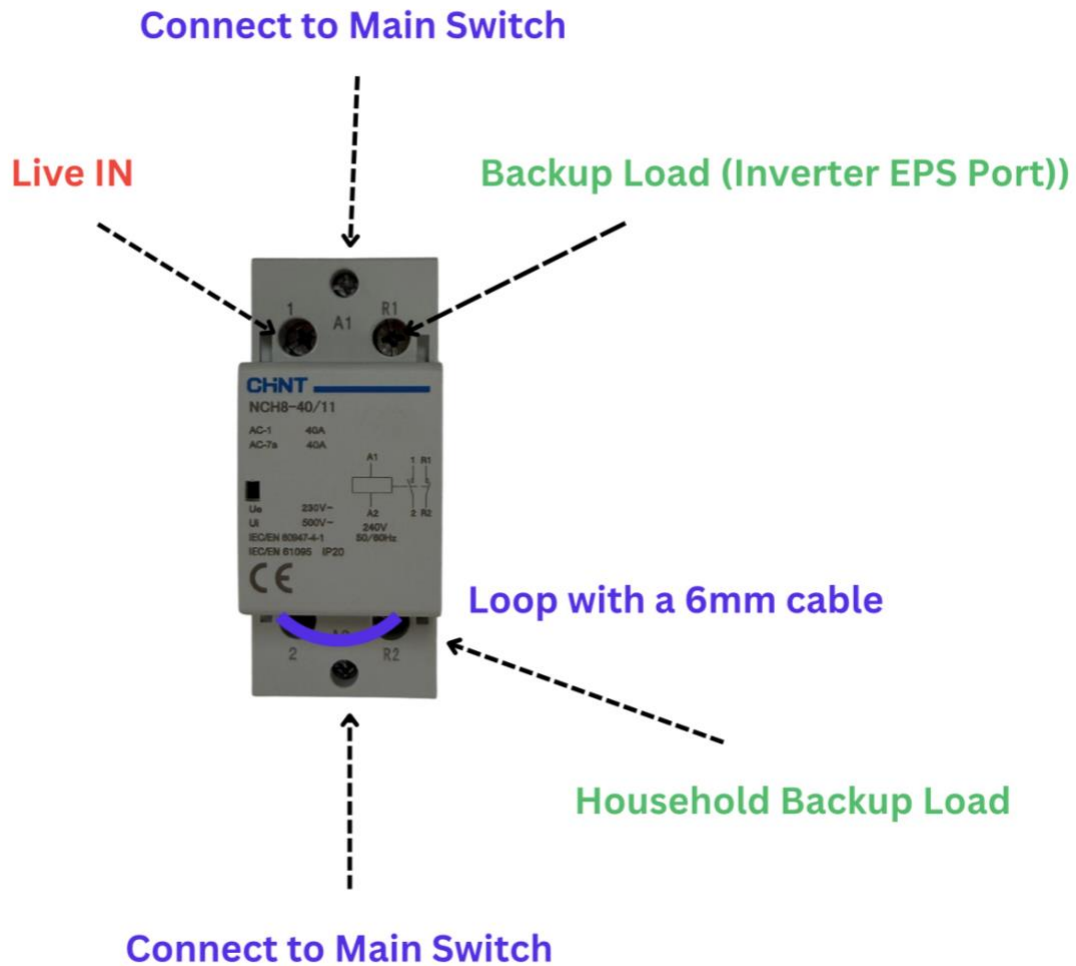


Meter II – FA, FB, FC

- Step 1 – Turn **ON** PV Inverters
- Step 2 - Navigate by pressing  until 'II' appear in the left hand corner
- Step 3 – Keep pressing arrow button until you find FA, FB and FC
- Step 4 – For single phase existing **on-grid** inverter, one of FA, FB, FC must be between -0.7 to -1.0, the other 2 is 1. For three phase existing **on-grid** inverter, FA, FB and FC must be between -0.7 to -1.0. System is normal



## 6. Chang Over Switch Wiring Diagram



**2 & R2 Must be Looped**

**A1 & A2 – Detect Grid Power Supply & Trigger Relay Coil**

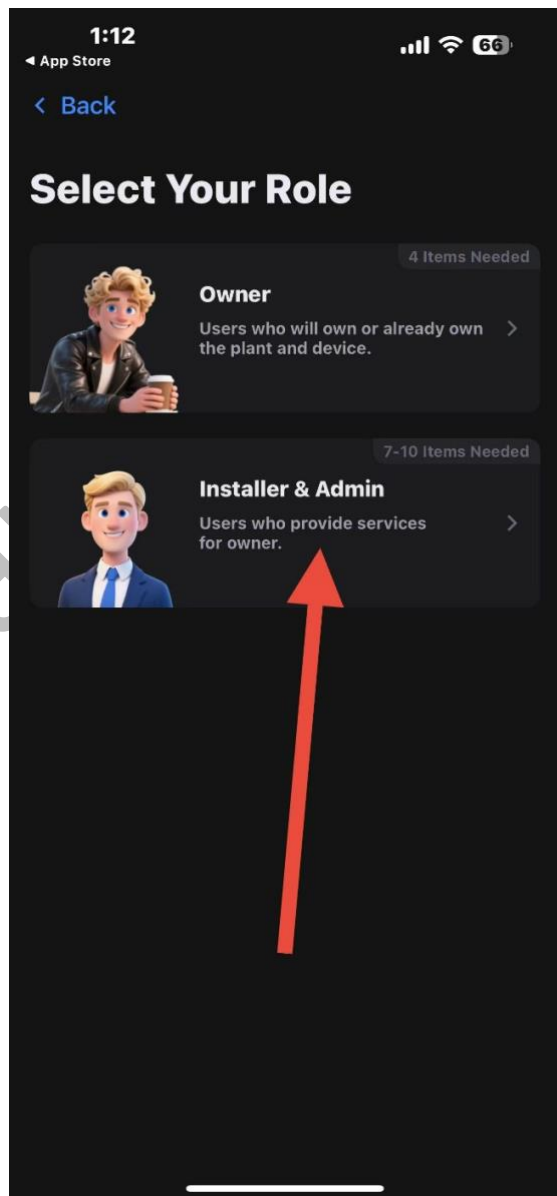
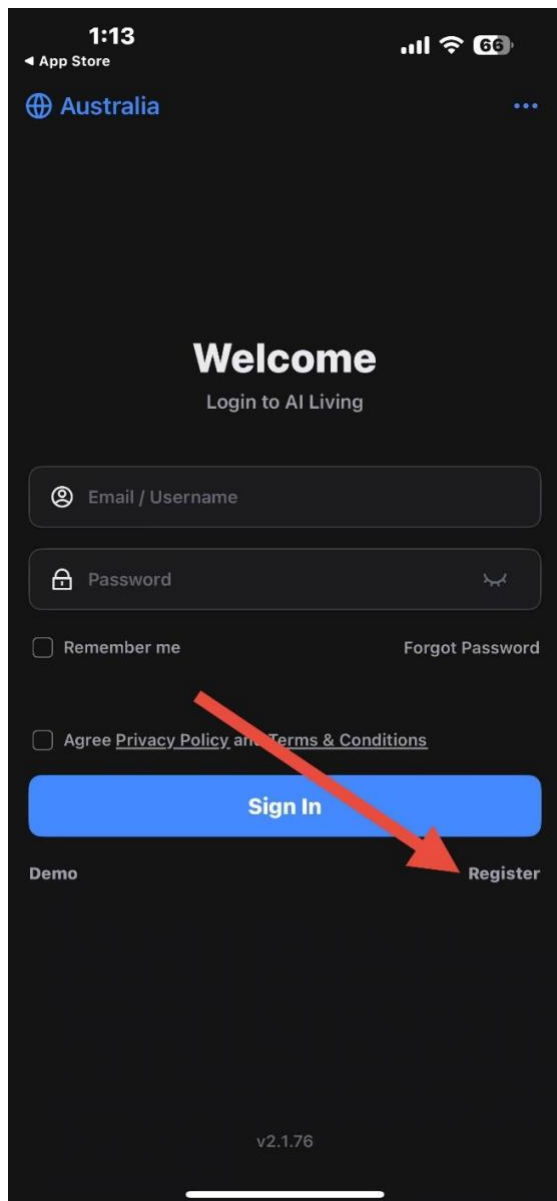
**When Grid Power is detected, electricity run through 1 & 2 then to backup load**

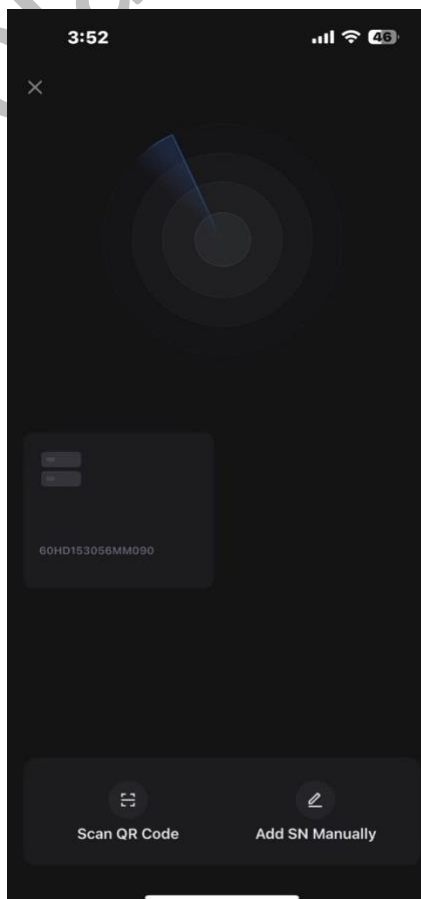
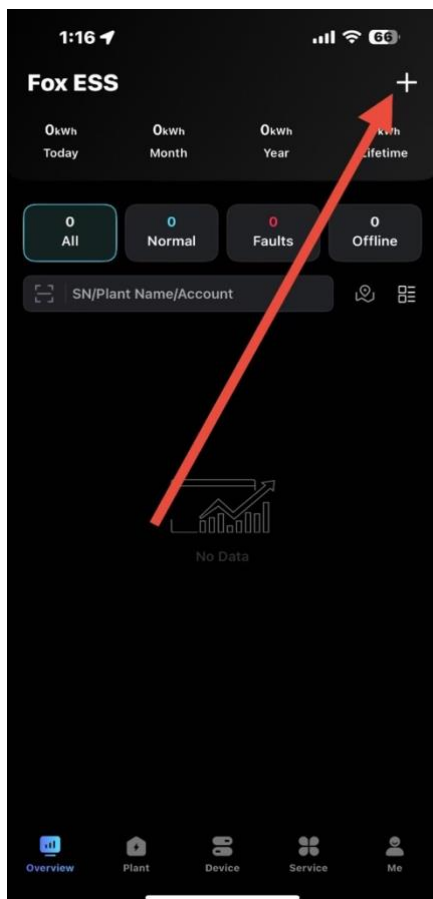
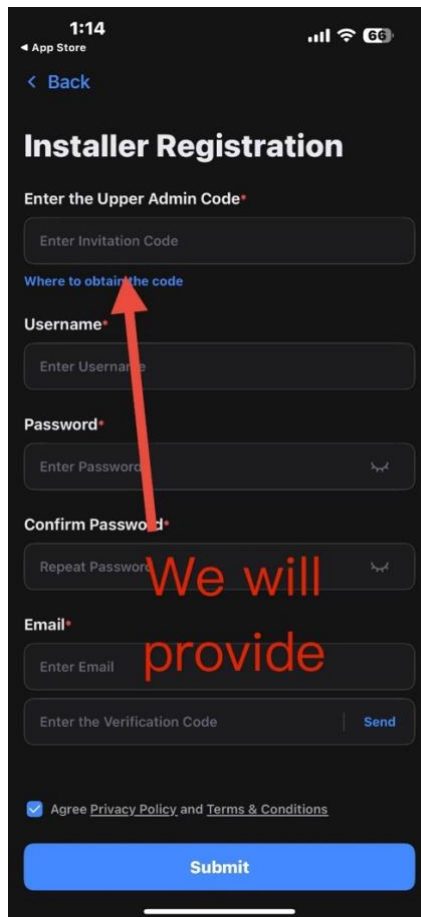
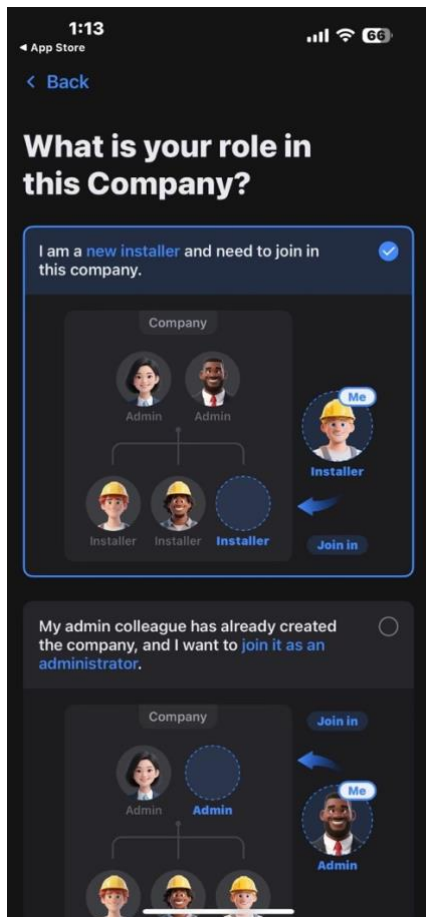
**During Power Outage, relay switches to R1 & R2 to draw power from battery**

## 7. App Account Setup

Download FoxCloud 2.0. Connect your mobile to customer's home wifi and turn on Bluetooth.

We will send you an invitation code. If you have not received one, please reach out to us.





# 1. How to create an Installer account via FoxCloud 2.0 APP

If you are new to FoxESS products installation, please register an account first regarding the following steps. **The key point is to obtain an upper Admin (or you can say upper Retailer) code before registration.**

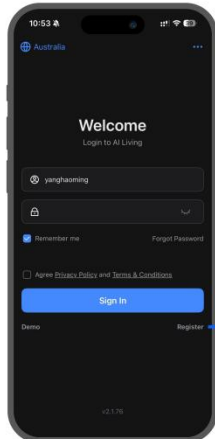
## Step1 Download

Scan the QR code to download FoxCloud 2.0



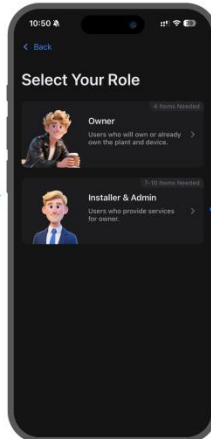
## Step2 Register

Click on Register and agree with the terms and privacy



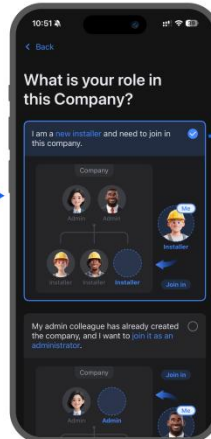
## Step3 Role Selection

Select Installer and Admin



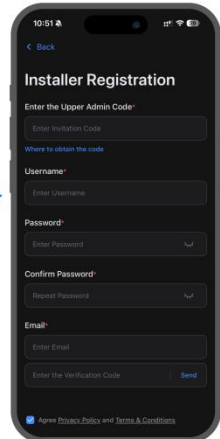
## Step4 Select Installer

Select "I am a new installer...".



## Step5 Account Info

Fill in the **Admin code**, which should be obtained from your upper retailer. Then fill in the rest of the information.



# 2. What should you do after registering your account?

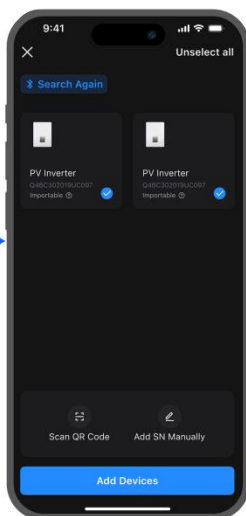
After logging your account, please create a plant and complete the network configuration for device regarding the following steps.

## Step1 Search Device

Click on "Create a Plant".

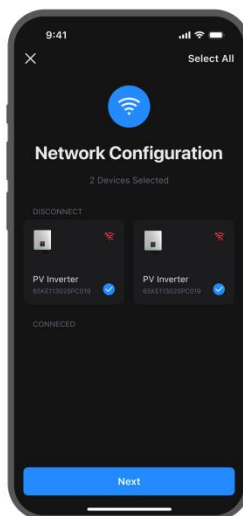


Follow the page flow and search the device via Bluetooth. **Make sure the device is powered on.**



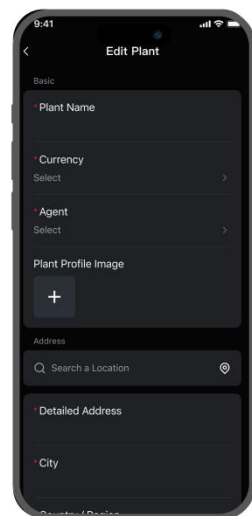
## Step2 Network Configuration

After adding the equipment, follow the page flow to complete the network configuration.



## Step3 Edit Plant Information

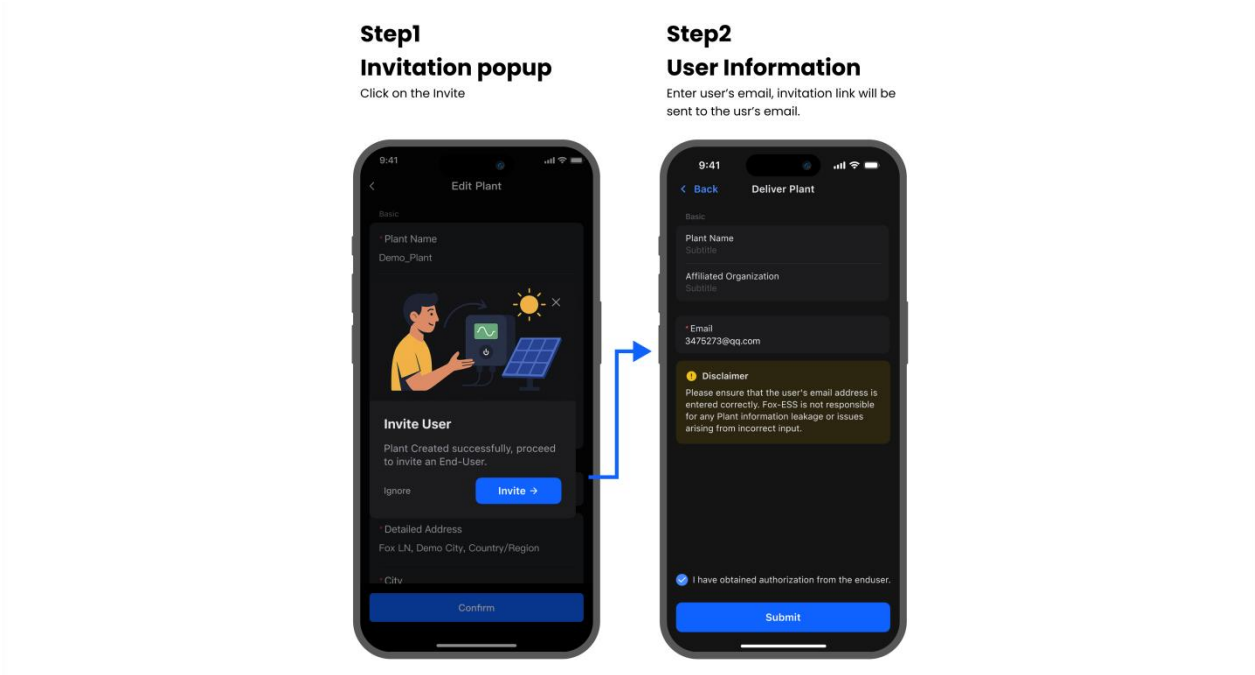
After adding the device, follow the page flow to complete the network configuration.



### 3. How to deviler the Plant to your end-user

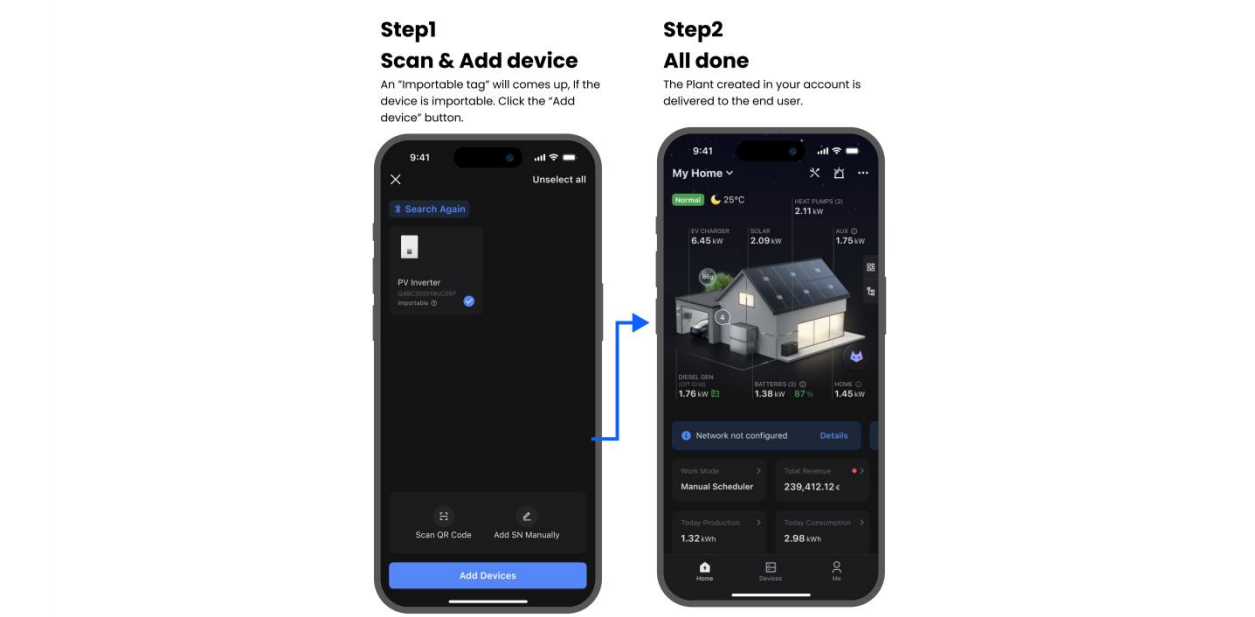
#### 3.1 Scenario 1: If your end-user does not have an account.

After creating a Plant, the app will pop up a page to invite an end user. The end user will receive an email and complete the registration via the attached link.



#### 3.2 Scenario 2: If you forget to share the link with the end-user.

If you forget to share the invitation link mentioned in section 3.1, you can guide them to scan and add the device via their own account. The plant will be imported automatically after the device is added. The binding relationship between you two will be built.



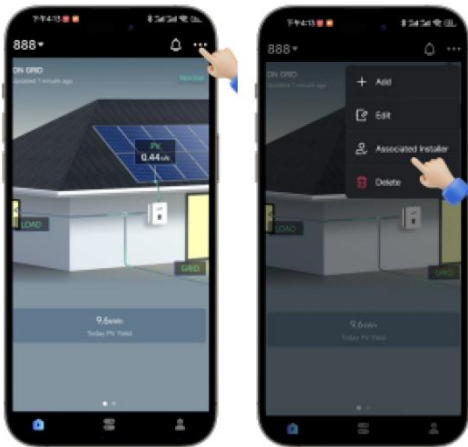
### 3.3 Scenario 3: If your end-user has already created a Plant

If your end user has already created a Plant that you'd like to monitor previously, please ask them to share the Plant link with you.

**Step1**

**Get Invitation Link**

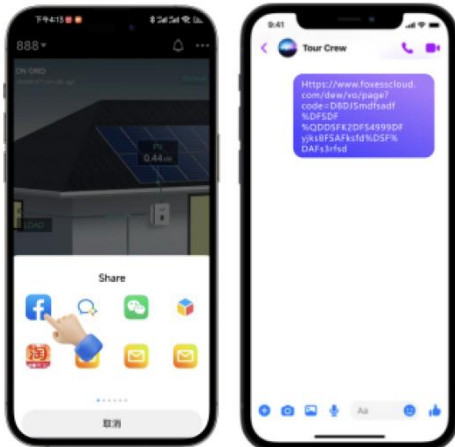
Click the three points in the top right corner of the home page and select "Associated installer".



**Step2**

**Send Invitation Link**

It will automatically produce a link, please share the link with your installer via social software.



**Step3**

**Installer Binding**

Open the link, and enter installer account name in the page, then click "Agree".

