Alpha ESS UK

G3 Parallel Installation Steps

Title	G3 Parallel Installation Steps
Date	6th August
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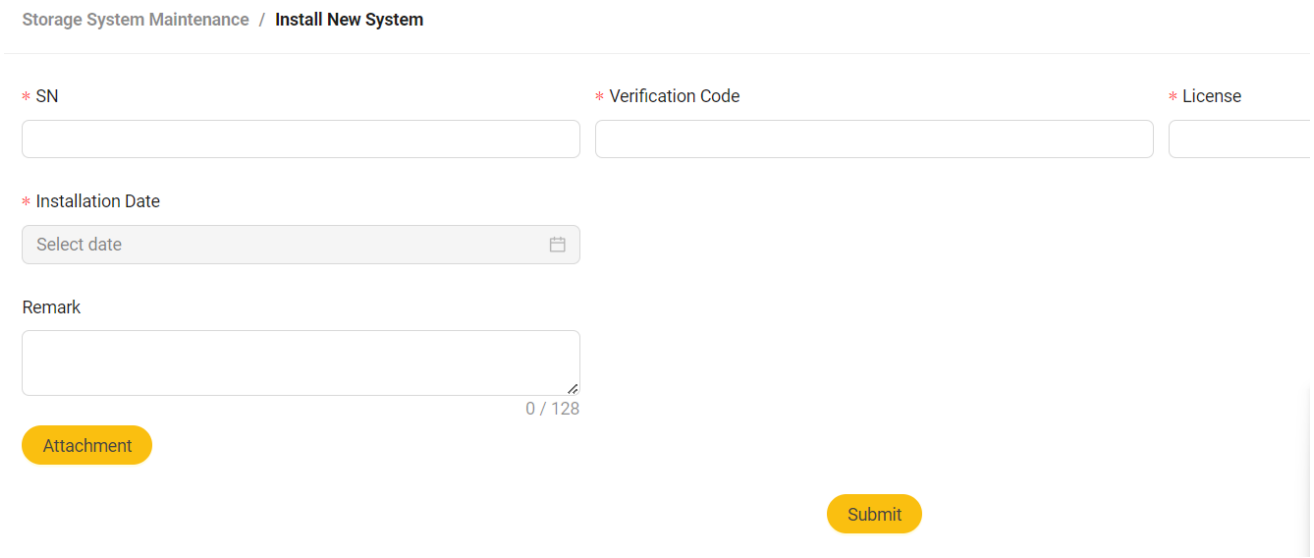
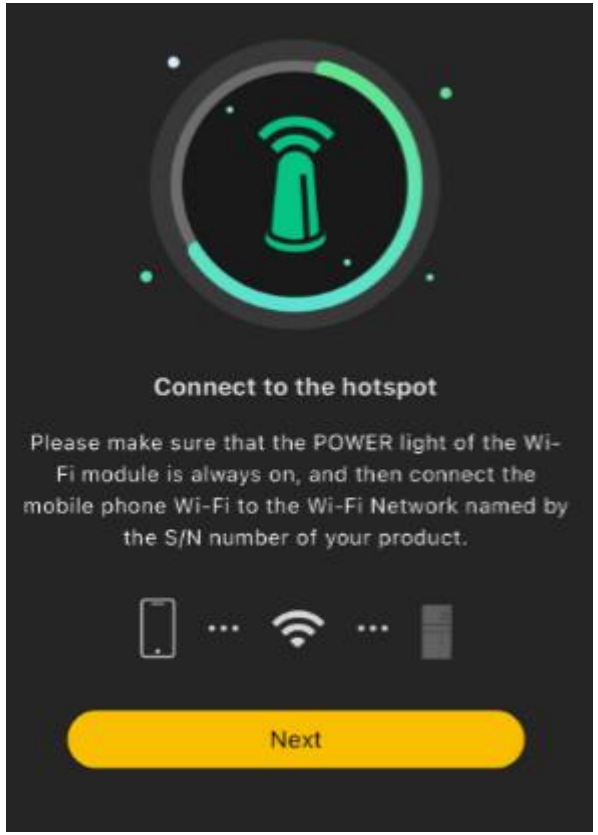
Step 1

- Once all systems have been installed, they must all be registered individually as standalone systems on the installers account and connected to the internet.





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Step 2

Make sure you have not connected the parallel kit yet.

- Please call the Technical Support line on 03303207913.

  Now both systems are online Alpha Technical support team will upgrade the EMS and the INV to the latest versions that support parallel connectivity.

- Now that both systems have been updated separately the systems can be turned off.

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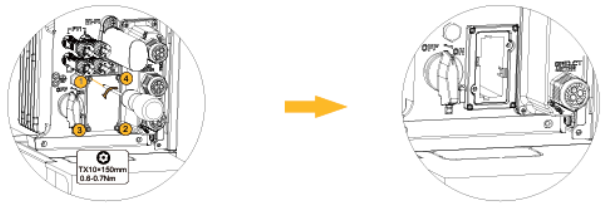
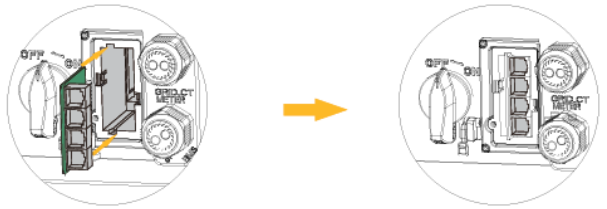
Step 3

The PARA boards and communication cables can be installed now that each system has been updated individually.

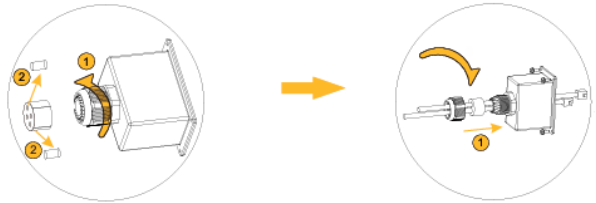
a. Disassemble the communication cover



b. Plug in the PARA board



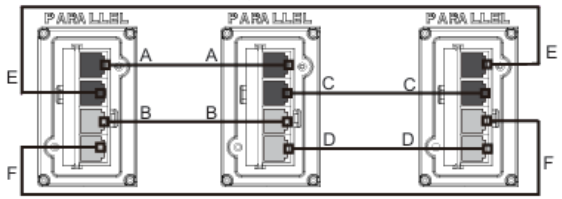
c. Take out the communication cables. Unscrew the swivel nut, remove the sealing ring and the sealing plugs. Pass the PARA COM cables through the swivel nut, cable gland body and the COM cover.



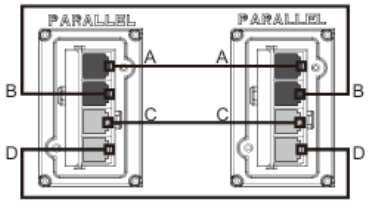
d. Wire the communication connection of inverters operation in parallel

⚠ NOTE: Attach two identical labels to both ends of one communication cable, to distinguish between different PARA COM cables.

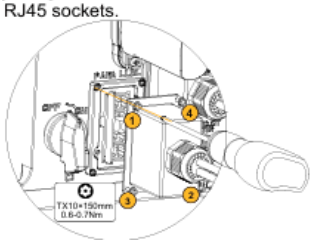
Parallel connection diagram for three inverters



Parallel connection diagram for two inverters



e. **When securing the COM cover over the communication ports, tighten the cover in place and then lightly push the PARA COM cables into the cover as you tighten the strain relief nut onto PARA COM cables.** This will ensure PARA COM cables are well-seated in the RJ45 sockets.



Step 4
Turn on power following the correct sequence for the G3 parallel configuration.

05 POWER ON AND OFF THE SINGLE PHASE PARALLEL SYSTEM

5.1. Detailed steps for power on the single phase parallel system

Make sure the correct installation and electrical connection have been finished before power on.

a. Switch on the AC circuit breakers between backup connection ports of the inverters and the backup combiner cabinet.

b. Switch on the battery circuit breakers of all inverters.

c. Switch on the battery circuit breakers of all batteries.

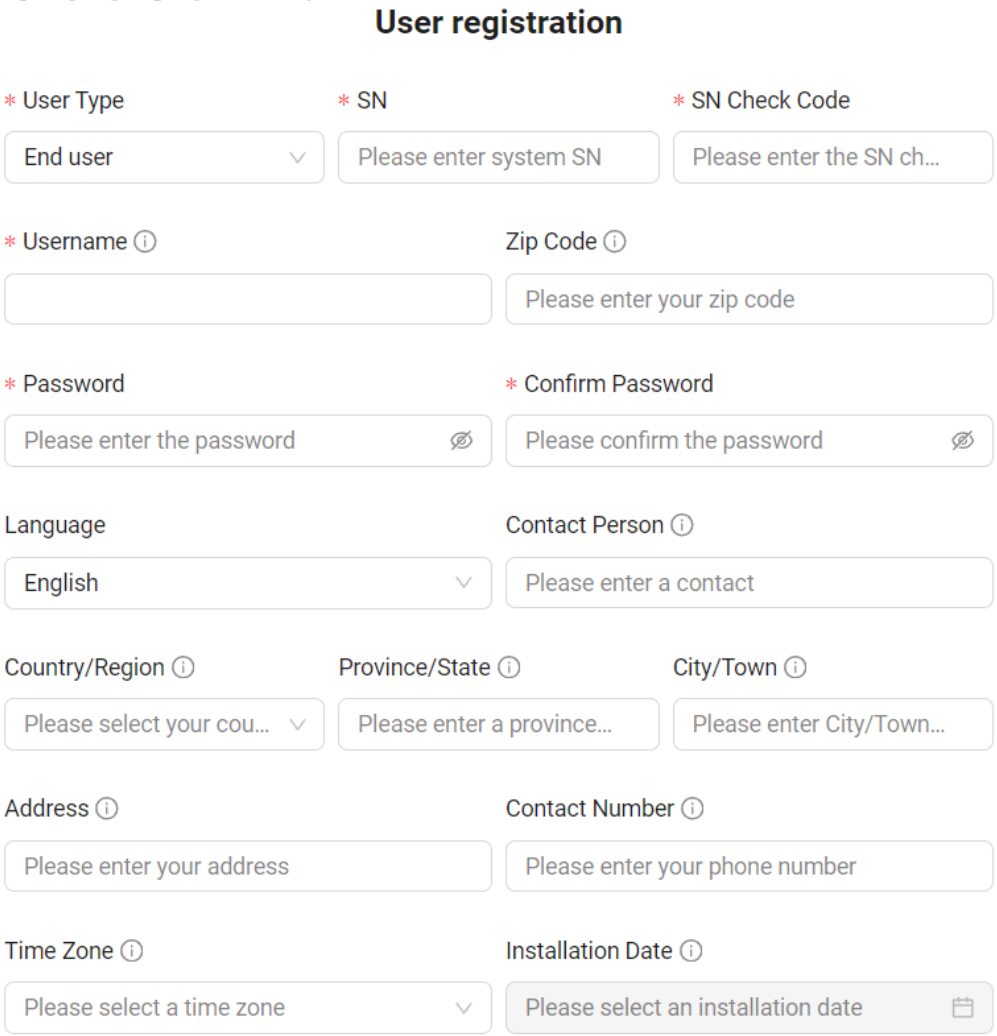
d. Short press the battery power buttons. All power buttons should be shortly pressed within 30 seconds. (For series batteries, please skip this step.)

e. Switch on the AC circuit breakers between grid connection ports of the inverters and the grid combiner cabinet.

f. Switch on the pV switches of all inverters.

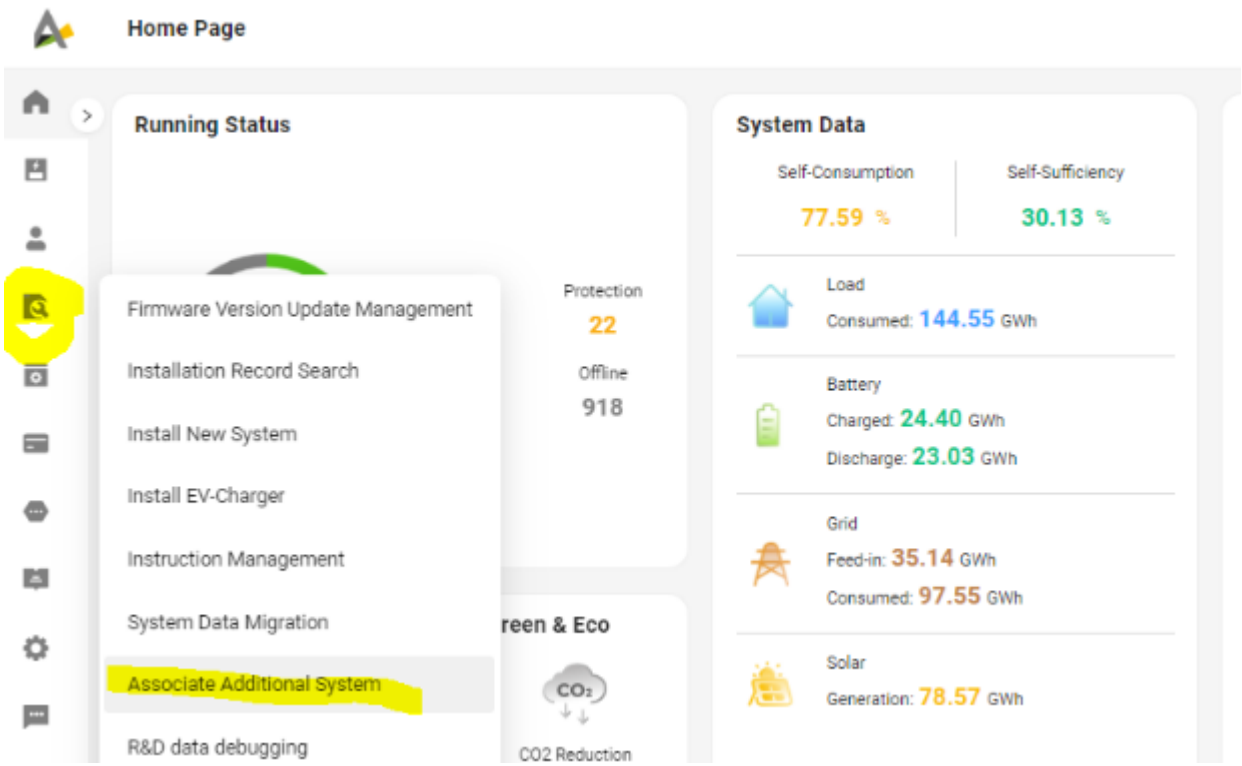
Step 5

Create an End user account registering just one of the systems to this account.



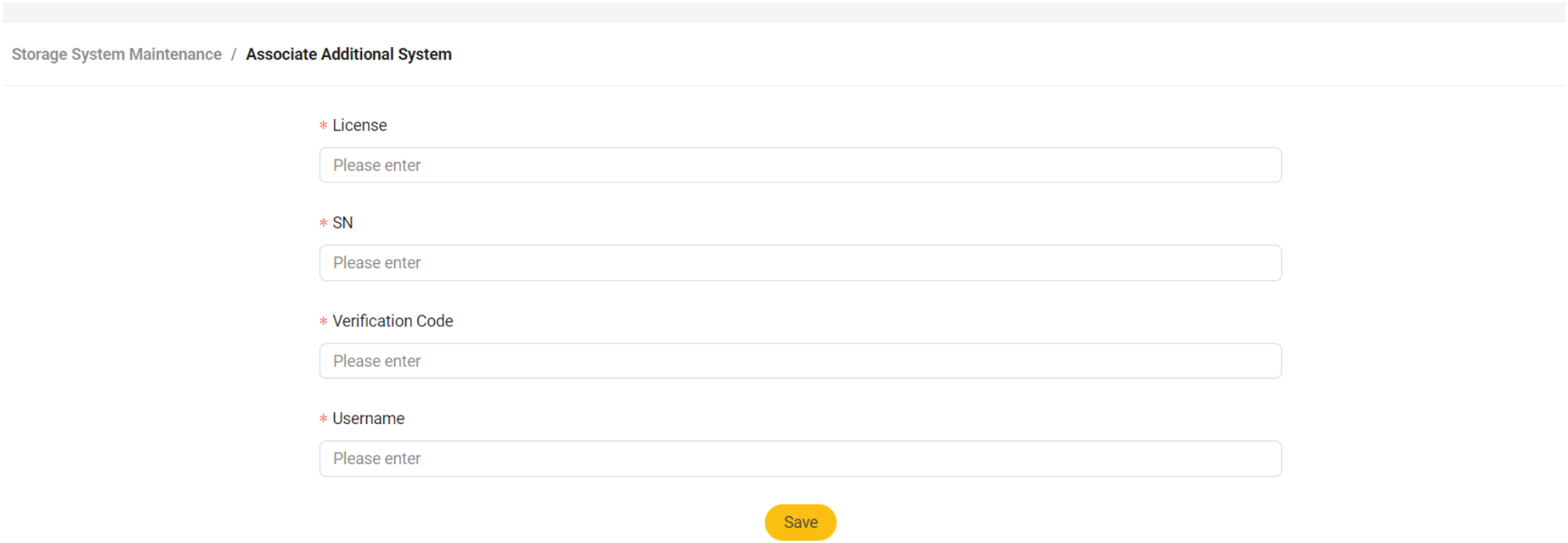
Step 6

Now that an End user has been created with one of the G3'S we can Associate their Additional system using this function on the portal.



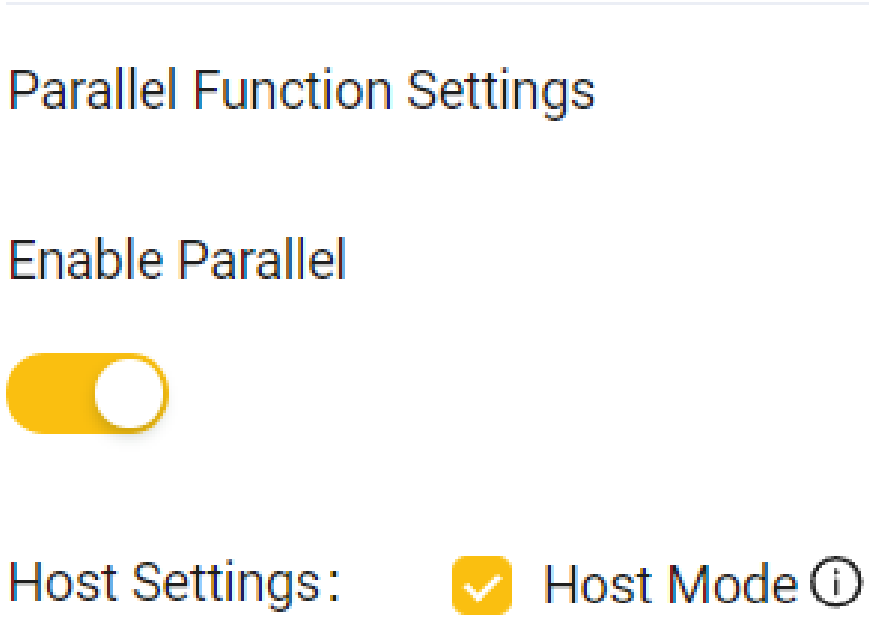
Step 7

This now needs to be filled in using the installers License number, the system you want to add and the End user's username.



Step 8

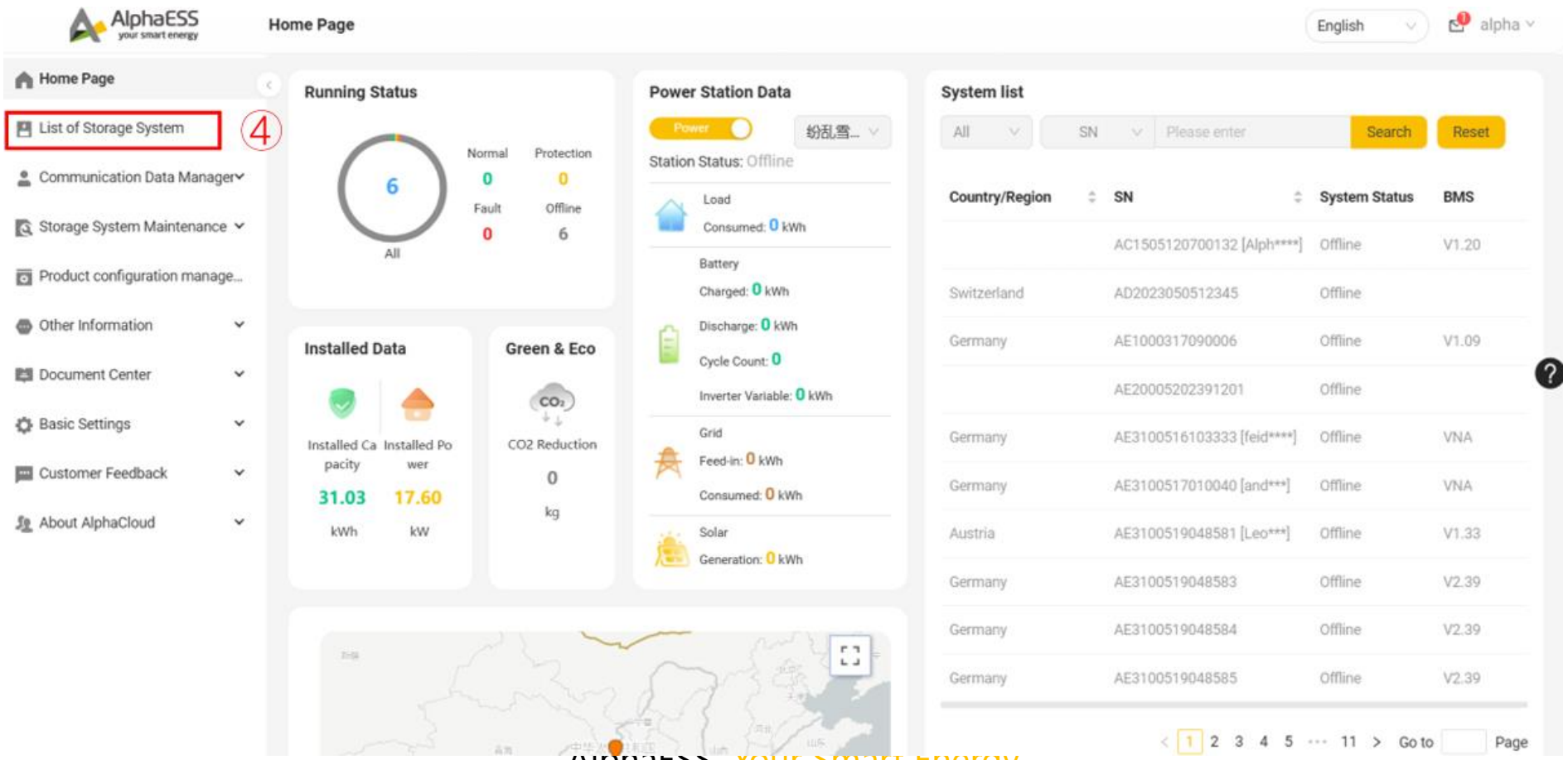
Now that both systems are on the end users account, we want to make one the Host and one the Follower. This can be found by going to system setup for each system and then down to this function.



- **After setting the Host you then need to go into the followers system and leave the Host settings box unticked**

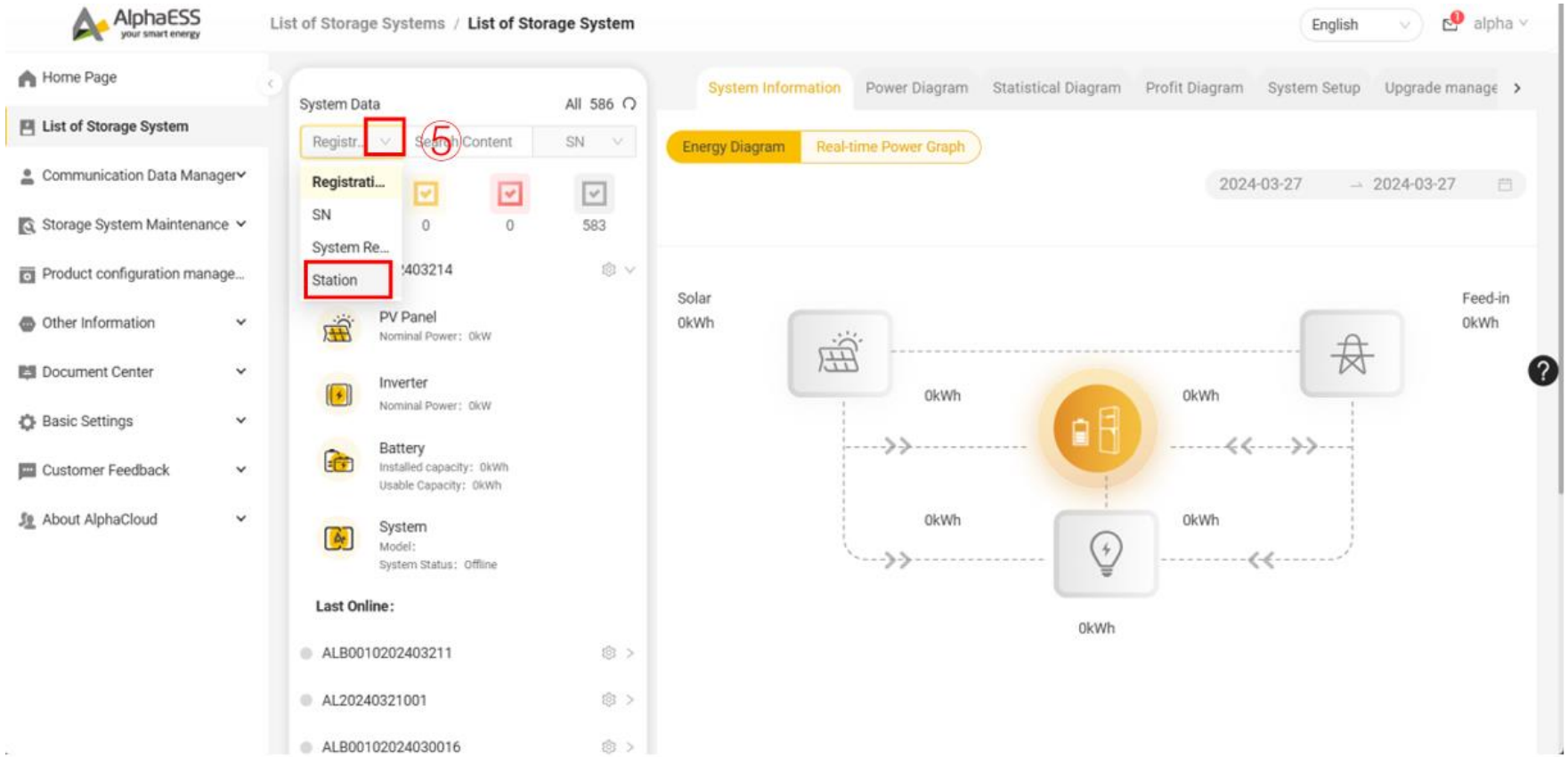
Step 9

Click the “List of Storage System” ④



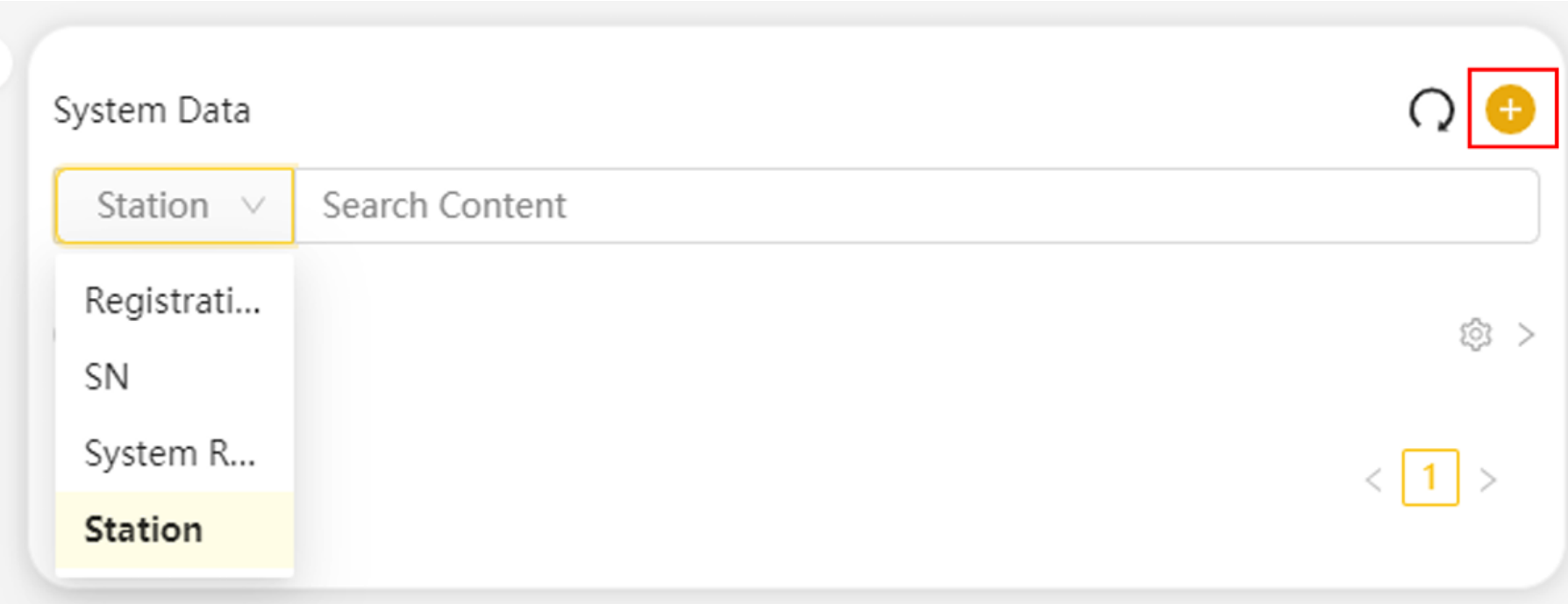
Step 10

Click the drop-down menu and chose the "Station”. ⑤



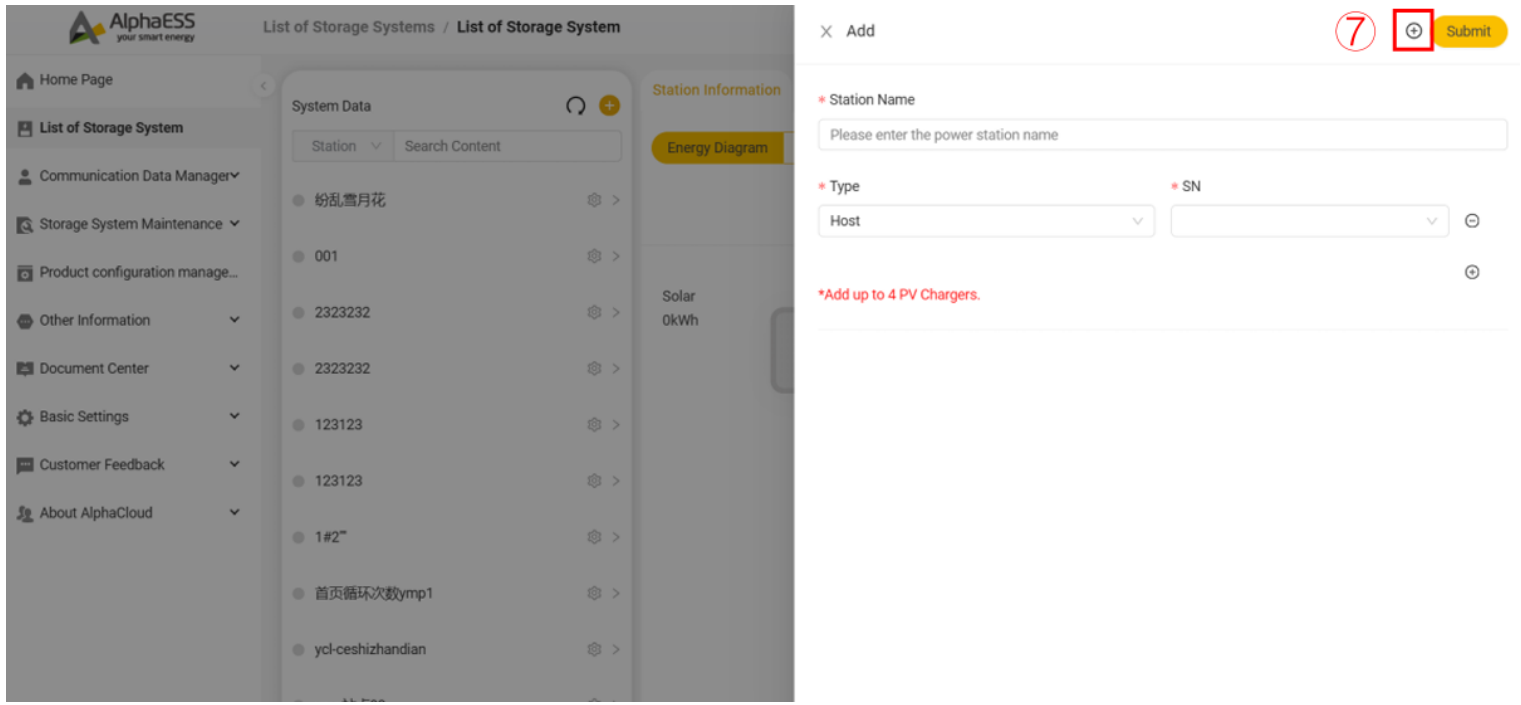
Step 11

Create a NEW STATION , you can click the “+” button to the right of “System Data” on the same line.



Step 12

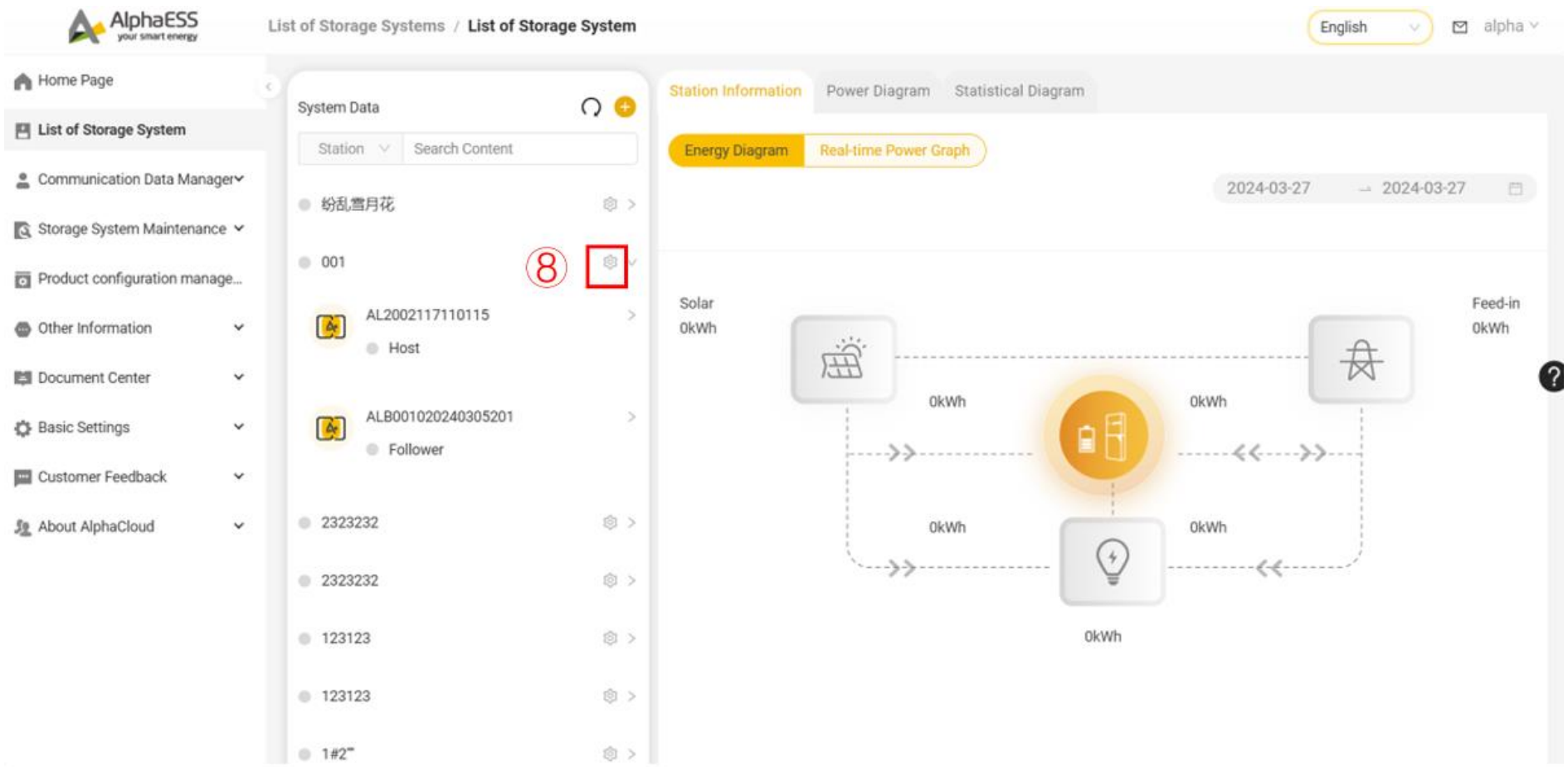
Add the Host Inverter or Follower Inverter , you can click the "+"button to the left of "Submit" button. ⑦



- **Note:**
  Obtain the device SN in advance and distinguish the Host, Follower and PV charge. The PV component cannot be connected to the system until the system is parallel. The Backup Cables cannot be connected together until the system is parallel.

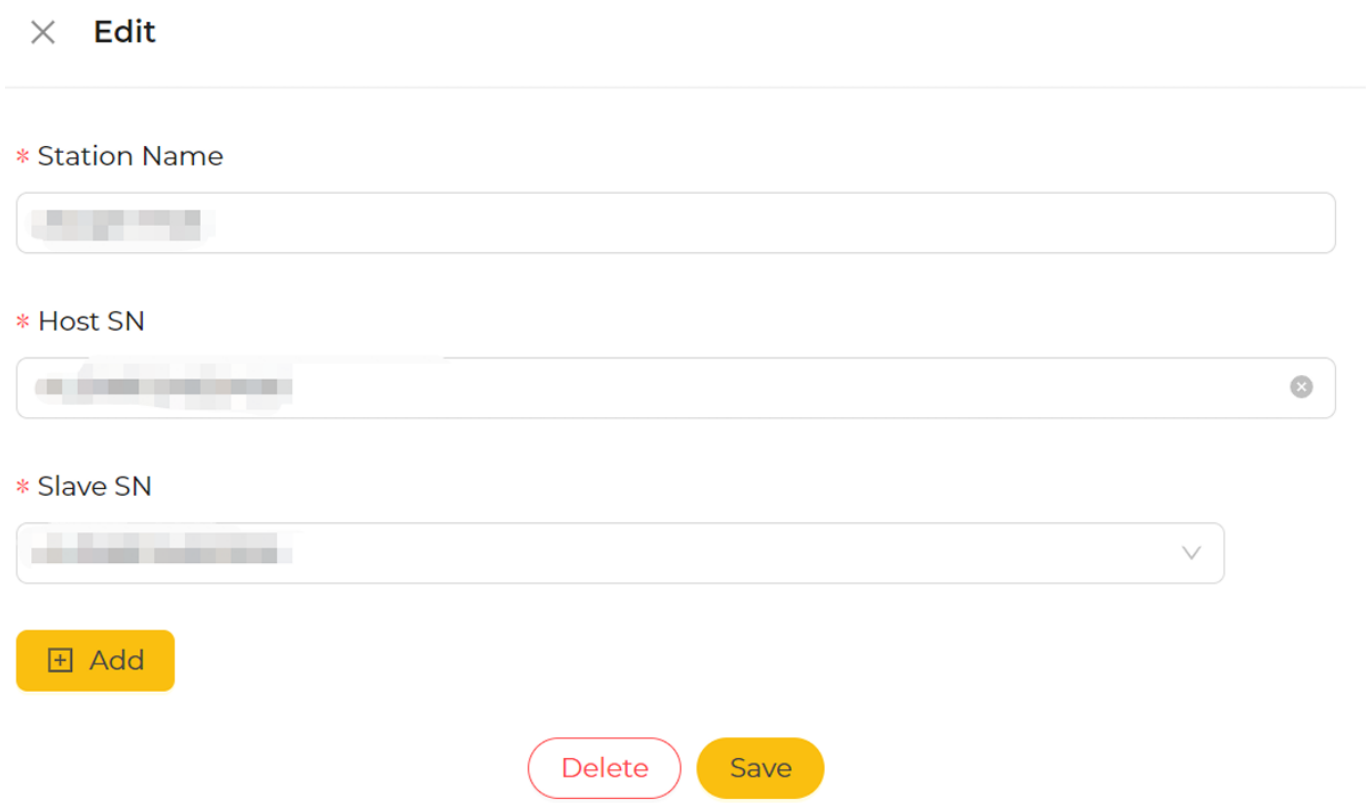
Step 13

You can edit the site information when you click the gear button to the right of the Station name. ⑧

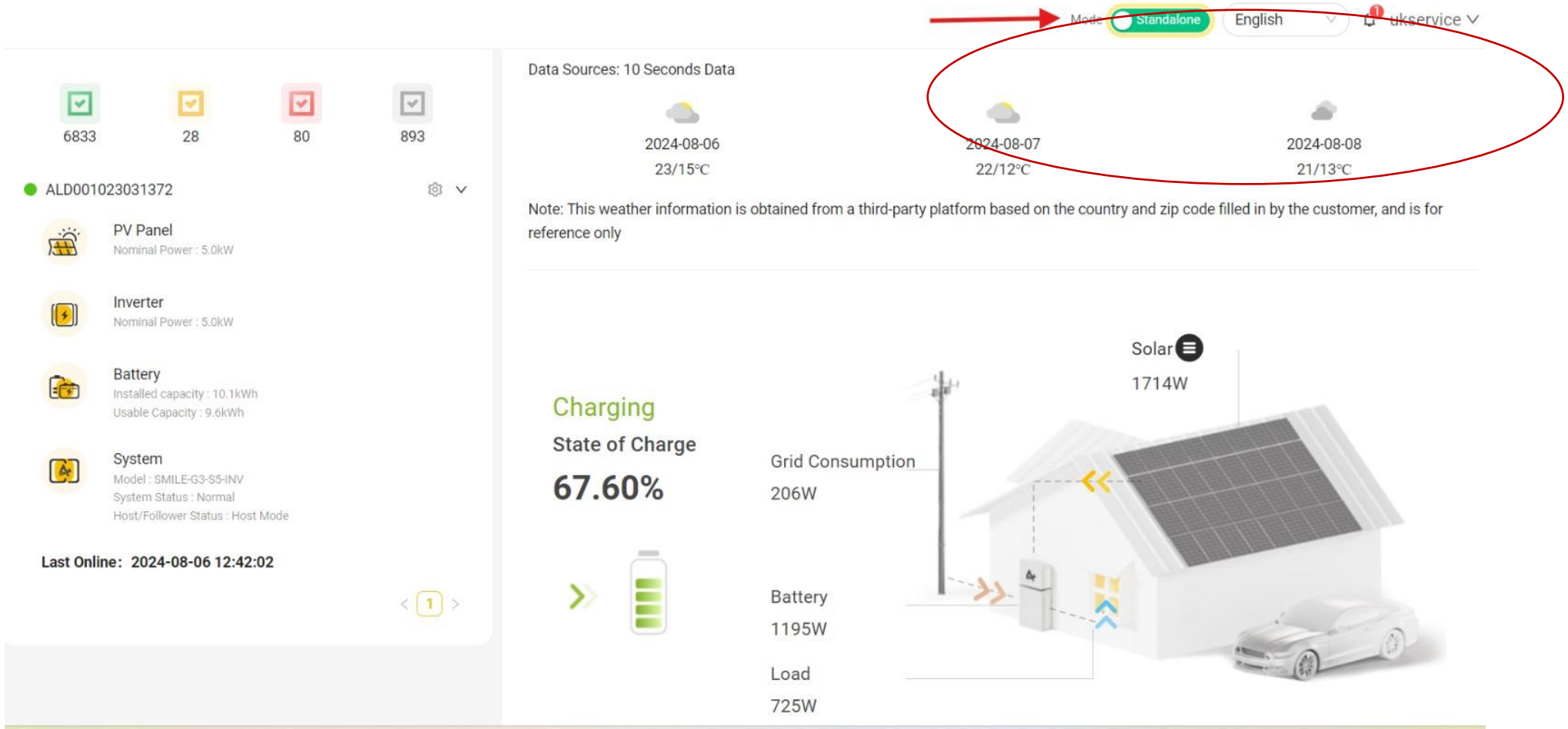


Step 14

You can change the Station name, replace, add, or delete the Host and Follower. Clicking the Submit button will save the updated Station information. Clicking the Delete button will delete the Station.



This process is now complete. To see both system you need to select station in the top right-hand corner of the screen



This process is now complete.
You can then view the status of the systems

