

Inverter commissioning with the FusionSolar App

The instructions refer to the following inverter types:

- 2-6KTL-L1
- 3-10KTL-M1
- 12-20KTL-M2
- 30-40KTL-M3

Notes:

- The Huawei FusionSolar App can only be downloaded via Huawei AppGallery on Android devices.
- The Huawei AppGallery must be downloaded using your browser. Alternatively, the app can also be downloaded with this QR code:
- Note that the "Apps from unknown sources" -feature must be enabled on your Android device!
- If you have an Apple device, the FusionSolar App can be downloaded from the AppStore.
- In principle, no FusionSolar account is required for commissioning. However, an account is required for online monitoring. Please get in touch with your contact person at SKE to get a FusionSolar account in the SKE support structure. Further information can be found in the manual "FusionSolar – Monitoring".



Step 1 – Wi-Fi connection to the inverter:

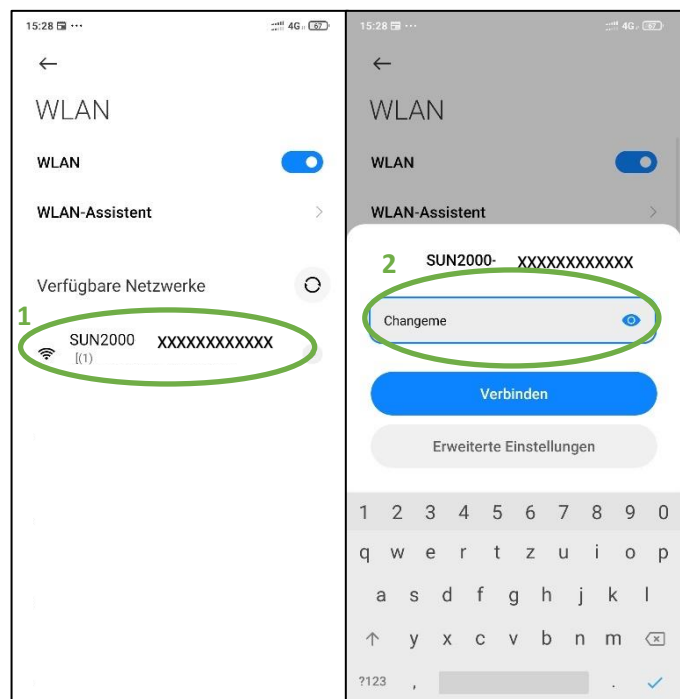
Make sure that the inverter is supplied on the DC and AC side.

1. Connect your phone or tablet with the Inverter hotspot.
Open the Wi-Fi settings of your Device and search for the network: "SUN2000-XXXXXXXXXXXX"

X represents the serial number of the device

If several cascaded inverters are put into operation, please connect to the hotspot of the master inverter.

The master inverter is the inverter that is connected to the smart dongle.



2. The password of the Wi-fi hotspot can be found on the inverter label, which is usually located on the right side of the inverter. In our case, the password is "Changeme"

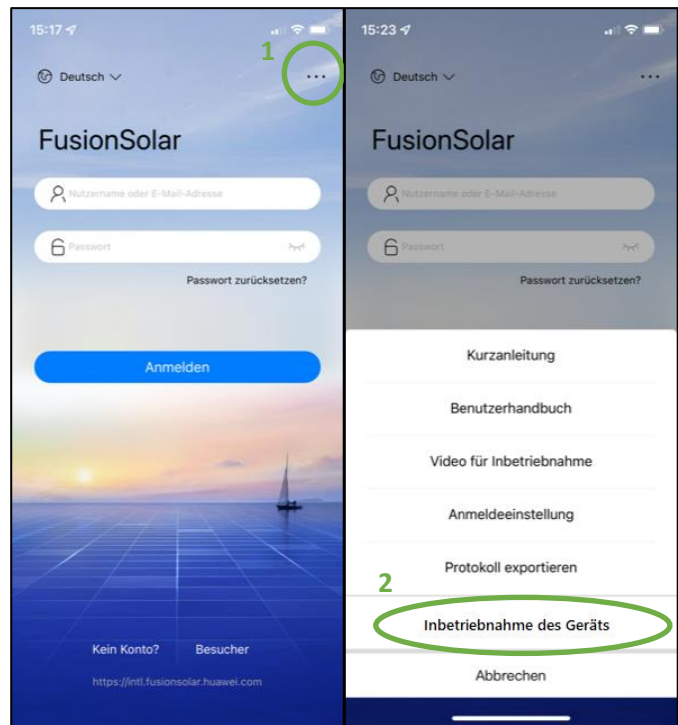
If your device asks you if you want to disconnect from the network, ignore this pop-up or make sure that your device remains connected to the inverter hotspot!

Step 2 – Authorization on the device:

Please open your FusionSolar app.

Normally, you should see this screen, which means that you are logged out of the FusionSolar online monitoring portal. Please do not create an Account!

1. Press the three dots on the upper-right corner of the screen.
2. Now press "Commissioning of the device". This field is only visible if you are connected with the Inverter hotspot. If the menu item is missing, check your Wi-fi Connection according to Step 1



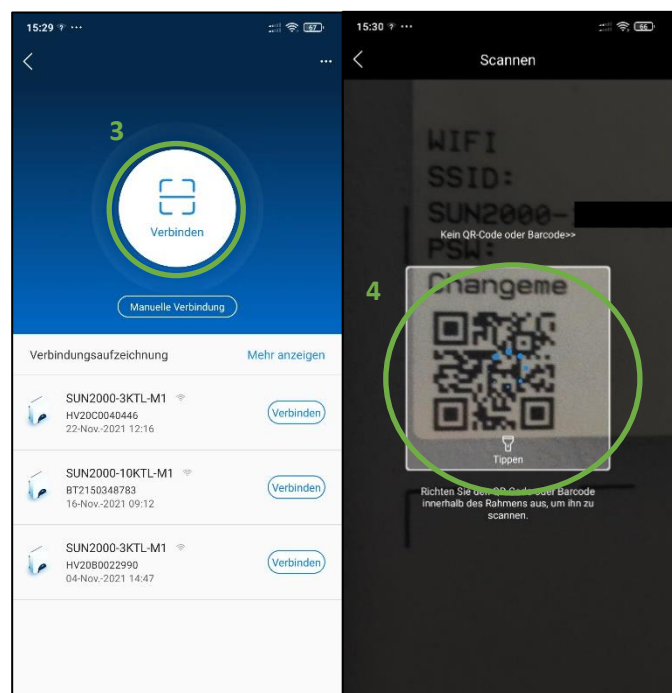
If you do not see this screen after opening the FusionSolar app, but you see the home screen of the FusionSolar monitoring portal, you can alternatively press "Me" in the lower right corner. Here you will also find the menu item "Commissioning of the device".

3. Please press the field "Connect" Now the Camera App activates. Please give permission if the phone asks you.
4. Please scan the QR code of the inverter, which is located on the right side.

As soon as a blue rotating circle is visible, the QR code is successfully scanned.

If the QR code on the right side of the inverter is not easily accessible, there is a second label in the scope of delivery, which can also be scanned.

You will now be taken to the login screen of the inverter



Step 3 – Login and Quick Settings:

1. Make sure that in the upper field "Installer" is selected.
2. The password must be either the default password 00000a, or as written on the label on the right side of the inverter.
3. Close the keyboard of the device, and then press "Login".

As soon as you have successfully registered, a request for an Inverter Update may appear on the screen.

If you have a LUNA2000 battery you might also get asked to update.

It is strongly recommended to update the inverter and the Luna.

The inverter will then restart.

Please repeat the previous steps to reconnect to the inverter.

Alternatively, you can connect to the inverter in the "Connection recording" field (see step 2, picture on the left) without having to scan the QR code.

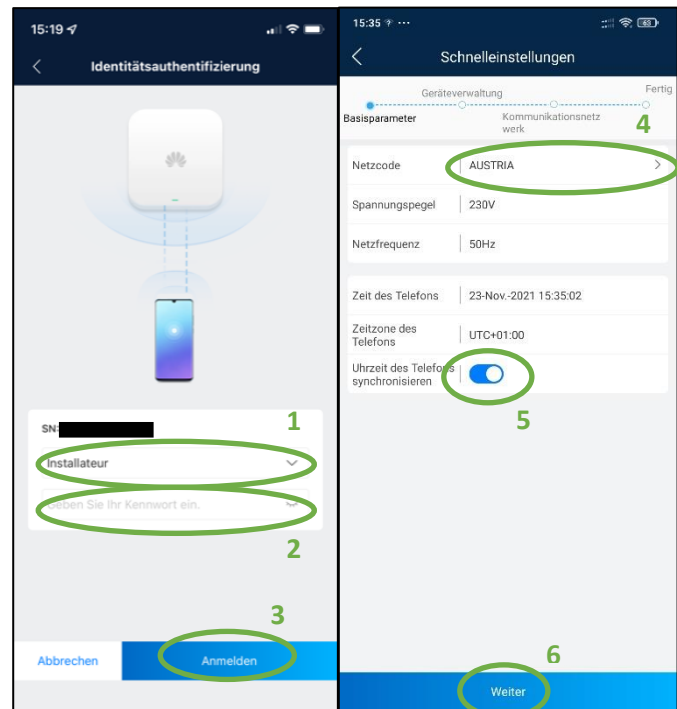
As soon as you have reconnected to the inverter, you will automatically be taken to the quick settings of the inverter, to the "Basic Parameters" area.

4. Please select the desired grid code in the list.

If there are no network codes in the list, check if the inverter is supplied on the AC side.

The inverter must always perform a grid scan beforehand so that all compatible network codes can be listed.

5. Please leave the preset time setting "Synchronize the time of the phone" activated.
6. Please confirm the basic parameters with "Next"



Step 4 – Device Management:

1. Connected devices can be found and added in the Device Management.

If you are installing a system with LUNA2000 battery, the battery, as well as the Power meter are automatically displayed. The dot must be green. This means that the communication is working properly.

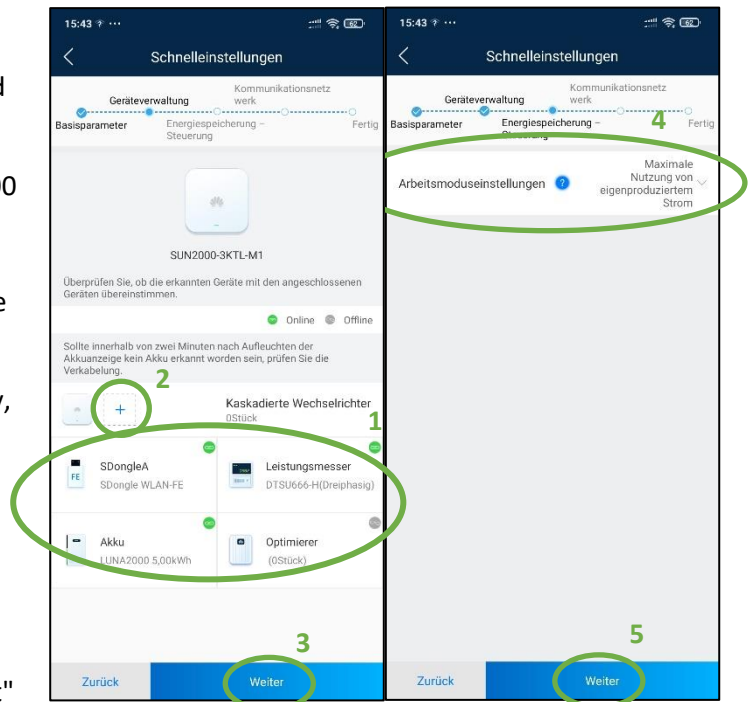
If a device is not displayed or shown in grey, please check the COM-cabling, and then tap on the corresponding Device Fields to re-initiate a search of the device.

In addition, an Optimizer Search is started automatically.

If you have no Huawei optimizers installed, the search can be skipped by tapping "Next"

After the optimizer scan is complete, the number of optimizers is displayed. Should the Number the optimizer be incorrect, please check your DC cabling and make sure that the optimized modules get at least indirect sunlight irradiation.

2. In the middle of the screen, more cascaded "slave" inverters can be added. Simply press the "+" symbol and start the inverter search. Also make sure that all cascaded "slave" inverters are supplied on the DC and AC side.
3. Confirm by clicking on "Next".
If you put a system without LUNA battery into operation, please ignore points 4 and 5
4. In the energy storage control, please leave the working mode setting to "Maximum self-consumption".
5. Please press "Next" to go to the inverter's communication settings.



Step 5 – Internet connection:

1. In the communication settings, the inverter, can be connected to the FusionSolar monitoring portal.
A WLAN/FE Dongle can be used to connect to the internet-router of the customer either by Wifi, or by Ethernet-cable.

If you instead use a 4G/LTE Dongle use, check if the inverter has been able to connect to the FusionSolar monitoring portal (See point 3).

If not, you can insert here the APN Settings of your SIM card provider. Also make sure that the SIM card is not locked.

2. If you want to connect an Ethernet cable to the dongle, please activate "Enable wired network connection"

3. In the middle of the screen, you can see the connection status of the inverter to the customer internet router and further to the FusionSolar Monitoring Portal.

If the connection from the customer internet router to the FusionSolar Portal is marked with a red X, please check if you can access the internet trough the internet router of the customer.

Tip: To rule out problems with the customer network, you can temporarily test the connection by connecting the inverter to a hotspot (e.g., from your Smartphone)

4. Please confirm your settings with "Next" and accept the field "I have been authorized by the user to connect to the management system".

Note: If the customer is unable to provide an Internet connection, you can ignore step 5. However, sometimes this step cannot be skipped. Please press "Back" several times and leave the quick settings. The device settings have already been saved, so the commissioning is now complete! If the customer wants to connect the system to a router later, the end customer can also do this himself. Please refer to the instructions "Manual_FusionSolar-App Important Settings for plant owners"

The final screen summarizes all detected devices again.

5. With a click on "Finish" the commissioning is successfully completed!

Please note that a connection with the FusionSolar portal is necessary to virtually create and monitor a system. For more information, please refer to the manual "FusionSolar – Monitoring"

