

Instructions for combining
AC•THOR / AC•THOR 9s / AC ELWA 2
with
**Sungrow Hybrid SHxxRT, iHome Manager,
WiNet-S2 Dongle**



Note!

The compatible inverters for the WiNet-S2 dongle can be found in Sungrow's compatibility list:
https://ger.sungrowpower.com/upload/file/20251029/EN_FS_Compatibility_Factsheet.pdf

1 Default settings on the my-PV device

Before commissioning, read the assembly instructions delivered with the device and the operating instructions available online.

The AC•THOR operating instructions can be found [here](#).

The AC ELWA 2 operating instructions can be found [here](#).

2 Communication with Sungrow

AC•THOR or AC ELWA 2 are connected to the Sungrow WiNet-S2 Dongle/iHome Manager in the network via a router. Within this network, the my-PV device receives information about how much photovoltaic surplus is available.

For the Sungrow SHxxRT inverter series, communication takes place via the LAN port on the inverter, which is intended for Modbus TCP communication.



Note!

- Do not connect the device directly to the inverter or battery system!

- It is important that the IP address of the signal source does not change during operation (e.g. due to a DHCP router) when communicating with the device via the network. Otherwise, the AC•THOR or the AC ELWA 2 will lose the control signal.
- When controlled by querying an inverter, a feed-in meter is required in the system. Otherwise, querying the inverter will not provide any data!

3 Settings on the Sungrow inverter



Note!

The following information was provided to my-PV by Sungrow. my-PV cannot guarantee the accuracy or that the information is up to date.

3.1 Sungrow SHxxRT series via the LAN port

For the Sungrow SHxxRT series, we recommend using the "LAN" port.



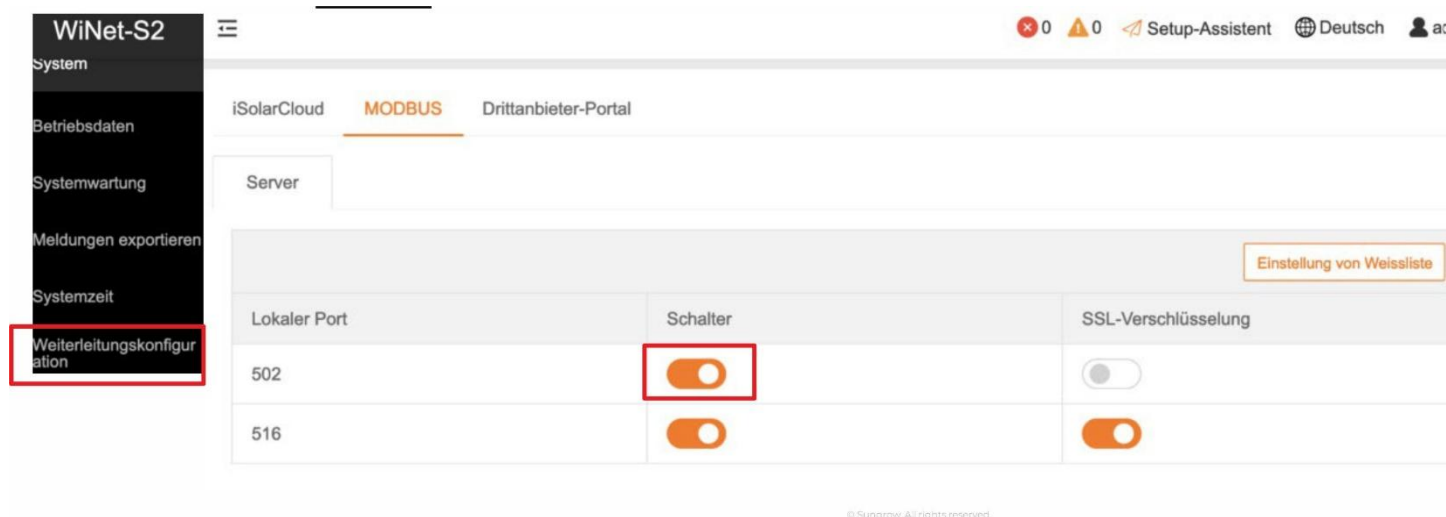
Note!

The LAN cable from this port must be connected to the router and not directly to the my-PV device!

3.2 Sungrow WiNet S2 Dongle

With the WiNet S2 firmware update v16, port 502 may be deactivated and the encrypted port 516 activated.

If the my PV device cannot establish a connection with the WiNet S2, connect to the WiNet S2 hotspot and reactivate port 502. SSL encryption must remain deactivated!

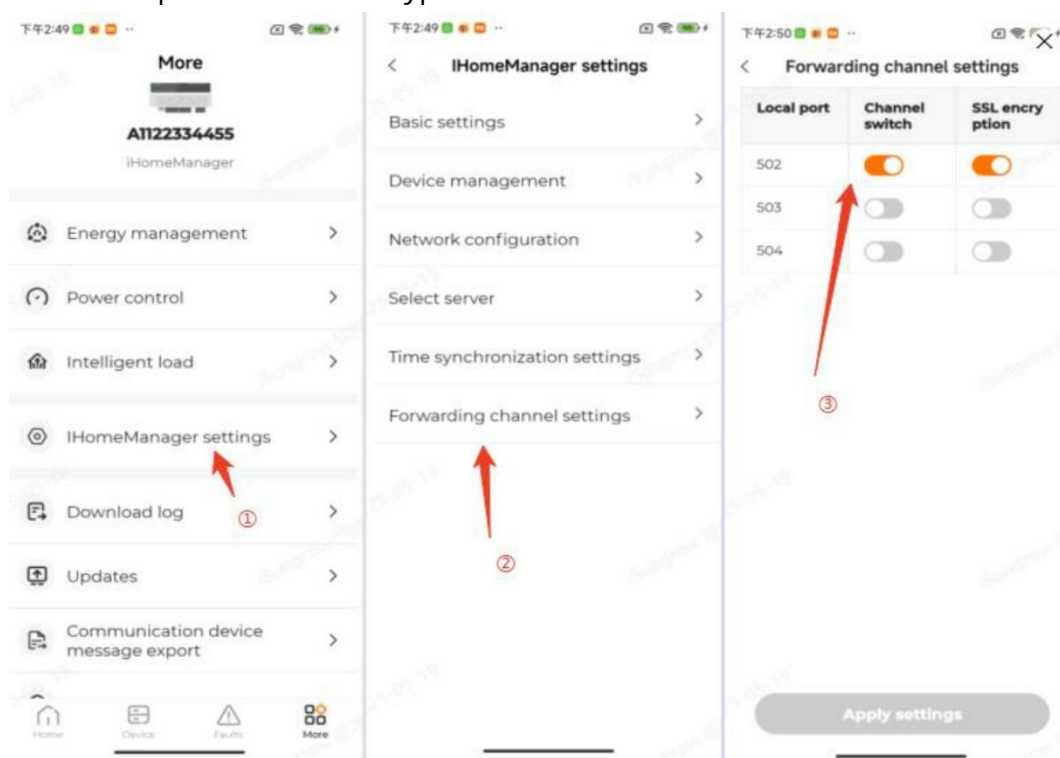


Then allow the WiNet-S2 **15-40 minutes** to reinitialize on the router. If you notice any abnormalities with the iSolarCloud: Unplug the WiNet-S(2) for 1 minute.

3.3 Sungrow iHome Manager

Activate Modbus TCP on the Sungrow iHome Manager as follows:

- Go to the iHomeManager settings
- Select Forwarding Channel Settings
- Enable port 502. SSL encryption must remain disabled.



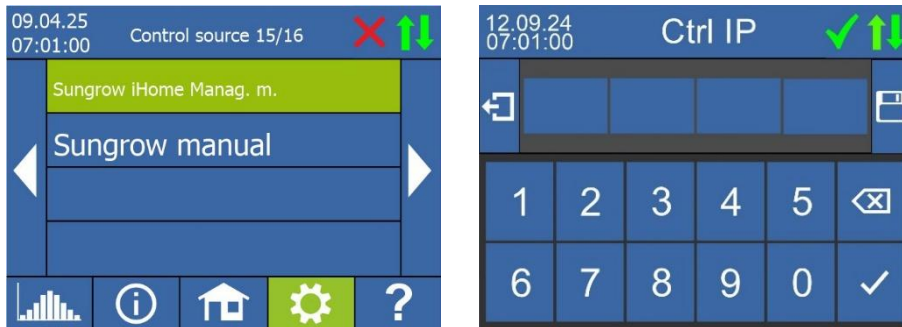
4 Settings on the my-PV device

For the Sungrow WiNet S2 dongle or the "LAN interface," the communication parameters are preset from AC•THOR firmware a0021100, and for the AC ELWA 2 from firmware e0000600.

For the Sungrow iHome Manager, the communication parameters are preset from AC•THOR firmware a0022100, and for the AC ELWA 2 from firmware e0002200.

On the display or in the web interface, select "**Sungrow manual**" or

"**Sungrow iHomeManager manual**" under Control for the control type. Then enter the IP address of the Sungrow inverter or iHome Manager under "Ctrl IP" on the display.



It is also possible to configure these settings via the web interface. In the web interface, the "Device ID" and "Device Port" parameters for the can also be configured if they differ from the default settings. The control settings for "**Sungrow manual**" are preset to device ID 1 and device port to 502.

Control type: Sungrow Manual

① ELWA Number > 1: only 'Slave' selectable.

Control source IP address: 0 0 0 0

Device ID: 1

Device port: 502

Control state: No Control

Power timeout: 10 s

Control target: -50 W

The control settings for "**Sungrow iHome Manager manual**" are preset to device ID 247 and device port to 502.

Control type: Sungrow iHome Manager manual

① ELWA Number > 1: only 'Slave' selectable.

Control source IP address: 0 0 0 0

Device ID: 247

Device port: 502

Control state: No Control

Power timeout: 10 s

Control target: -250 W

The Power timeout should not be changed.

If the system has a battery storage unit and you want to prioritize charging the battery storage unit, we recommend leaving the Control target at -50 W. Otherwise, we recommend setting it to -250 W.

Subject to changes and printing errors.



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