my-PV AC ELWA 2 - Commissioning

This brief installation instruction provides a quick overview of all the necessary steps. Additional information, safety instructions, references, and sources can be found in our HelpCenter. The Installation instructions are only valid for the integration of the energy management system and the configuration of relevant assets. Make sure to carefully read the **safety instructions** and adhere to the **infrastructural requirements for a gridBox gateway installation**.

Required:

- Latest firmware, at least 207.0
- Upper and lower temperature limits
- Network connection (RJ45) and a 230 V socket available close to the water tank
- The link to the GUI is printed on the box of the heating rod: https://www.my-pv.com/download/currentversionget.php

Connection

Make sure to install the AC ELWA-E in a water tank in accordance with the manufacturer's requirements. The water tank needs a free 1 ½ inch outlet for the heating rod.

DANGER

Using the heating rod when not installed can cause damage to the device and injuries due to hot surfaces.

DANGER

Wrong values can cause harm to people and might potentially damage your heating system.[1]

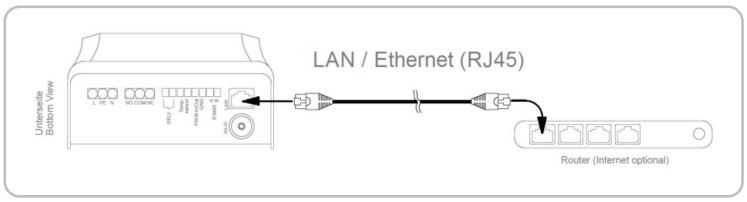
IMPORTANT

A maximum of 1 my-PV heating device can be used per system and gridBox. The connection of several devices and the master-slave function are not supported and can lead to incorrect control of the energy flows.

1. Connect the heater to the local area network using an Ethernet (RJ45) cable.

   Connection options[2]

[1] https://www.my-pv.com/download/acelwa_e/Montageanleitung_AC_ELWA-E_DE-EN-201105.pdf



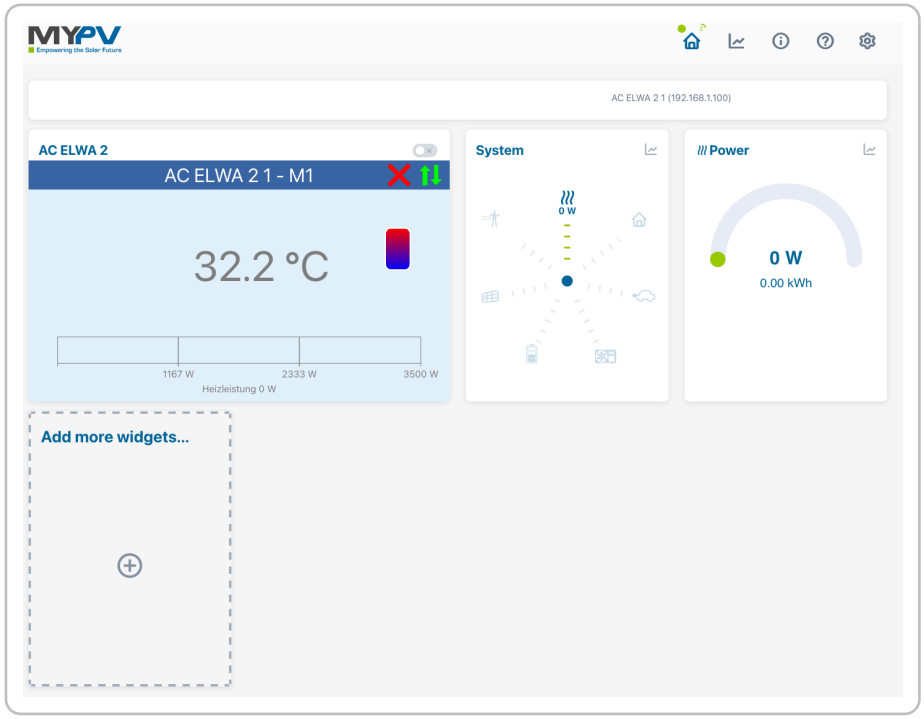
- RJ45/Ethernet (backend operations)
- RJ45/Ethernet (load management)

2. For more information on the wiring of the heater, refer to the manufacturer's documentation.[3]

Configuration

1. Access the Web GUI by opening the downloaded HTML file with a browser. Then you see the start page, as shown in the following figure. The GUI automatically detects the heating rod in the network.

   Status page



Network settings

When delivered, the heater uses DHCP to obtain an IP address from the router.

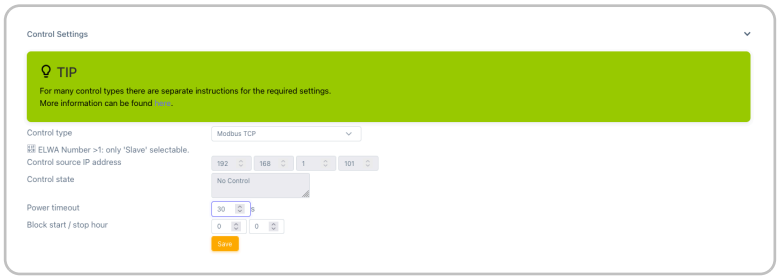
[2] https://download.my-pv.com/acelwa2/AC_ELWA_2_Montageanleitung_DE-EN-FR-NL-ES_240625.pdf
[3] https://download.my-pv.com/acelwa2/AC_ELWA_2_Montageanleitung_DE-EN-FR-NL-ES_240625.pdf

TIP

For easier device identification on sites with many of the same model, use fixed network addresses. To do this, either configure static DHCP leases in your router or set the IP address directly on each device. Remember, if setting directly, the address must be outside the DHCP range to avoid conflicts, but still within the network managed by your router

Modbus settings

1. Go to **control settings**.
2. Set **Control type** to **Modbus TCP** and set **Power time out** to 30 seconds.
3. Save your changes.

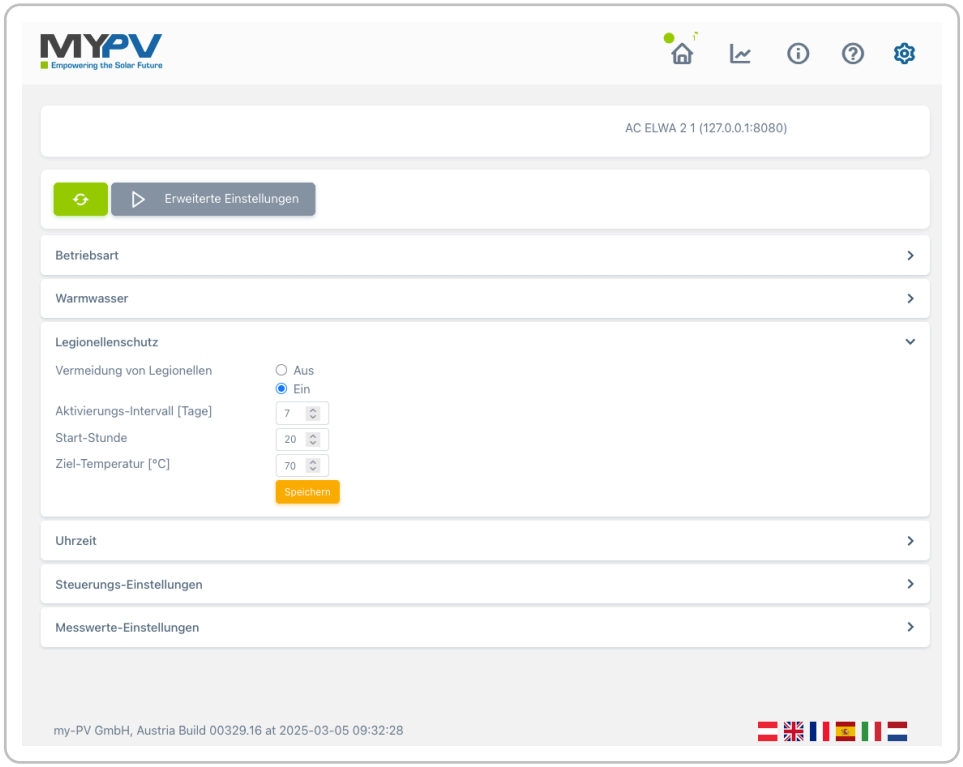


Legionella protection

If the heating element is installed in a domestic hot water tank, we recommend heating the water to at least 60°C at regular intervals. [4]For this purpose, you can activate the legionella protection in the interface:

[4]https://www.infektionsschutz.de/erregersteckbriefe/legionellen/

Figure 1.



NOTE

During the heating due to the legionella protection, the AC ELWA 2 is not controlled by the gridBox and thus the energy demand is independent of the current status of PV production, consumers and storage systems.