

SMARTFOX Booster 3K +



Short installation instructions V01.3



Please observe all safety instructions, operating instructions and installation instructions contained in the full user manual. You can find the latest version on our website at www.smartfox.at/downloads.

Assembly

1. Disconnect the system from the mains. (Observe safety rules!)
2. Unpack the SMARTFOX Booster 3K + Extension from its packaging.
3. Mount the SMARTFOX Booster 3K + Extension on the DIN rail in the electrical distribution board. (Main = 9MU, Extension 3MU)

Warning!

Ensure adequate ventilation – do not install in enclosed damp-proof distribution boxes or cover the ventilation openings!

4. Connect the Booster 3K to the extension using the flat cable provided.



Elect. connection - power supply (Mains)

5. Connect the phase (L1), N, PE of the supply line to the 3 terminals (Mains) on the Booster.
6. For 3-phase applications, connect phases (L2, L3) to the input terminal of the Booster Extension.
7. The equipment must be protected by a suitable residual current device (RCD) + circuit breaker (CB). Observe local connection requirements and standards!



Manufacturer's recommendations:

- Type A RCD / 30mA
- Circuit breaker (for a maximum output load of 9kW, 3-phase) 3/B16

Elect. connection - power supply (Load)

8. Controlled phase (L1') (0–3 kW): Connect the neutral (N) and earth (PE) of the heating element supply cable to the 3 terminals (Load) on the Booster.
9. Connect the switched phases (L2', L3') (on/off) of the heating element supply cable to the output terminals of the Booster Extension.

Connection requirements for loads:

- purely resistive loads
- heating elements with a temperature controller (TC) + safety temperature limiter (STL)



Single-phase: Booster 3K only

- max. heating load 3kW, 1-phase, 230V AC

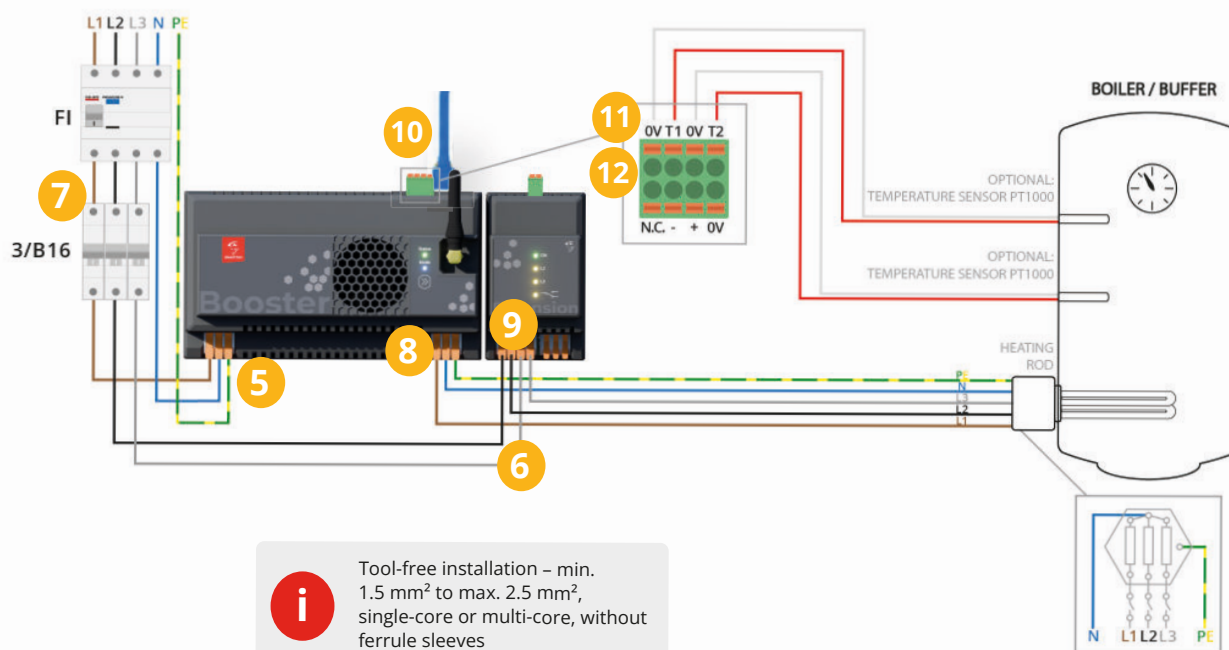
3-phase: Booster 3K + Extension

- max. heating load 9kW, 3 phase, 230/400V AC
- star connection + neutral conductor connection to star point (Y+N)
- balanced load (3/3/3kW)

Communication connection / Temperature sensor / DI

(grid-oriented control §14a or heat pump emergency heating request)

10. Connect the device to the network via a LAN cable to the designated RJ45 socket.
11. Optional: Connect up to 2 external temperature sensors (PT1000) to the terminals (T1/0V or T2/0V).
12. Optional: Use temperature input 1 or 2 as a digital input for control in accordance with §14a or for the heat pump emergency heating request (potential-free contacts only).



Tool-free installation – min. 1.5 mm² to max. 2.5 mm², single-core or multi-core, without ferrule sleeves

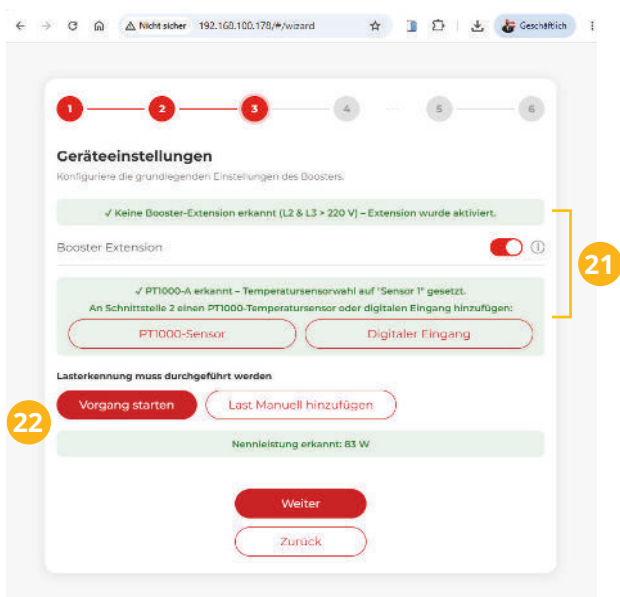
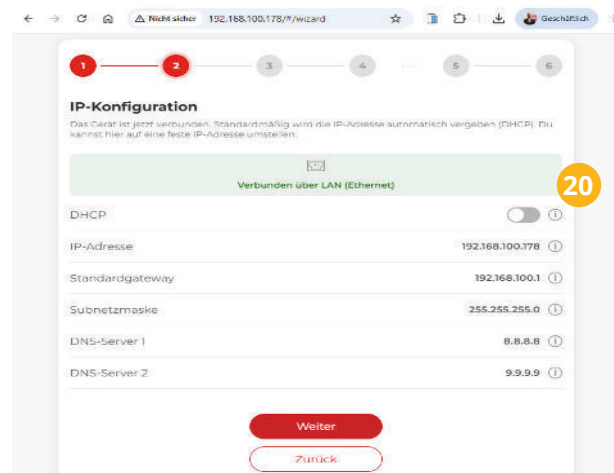
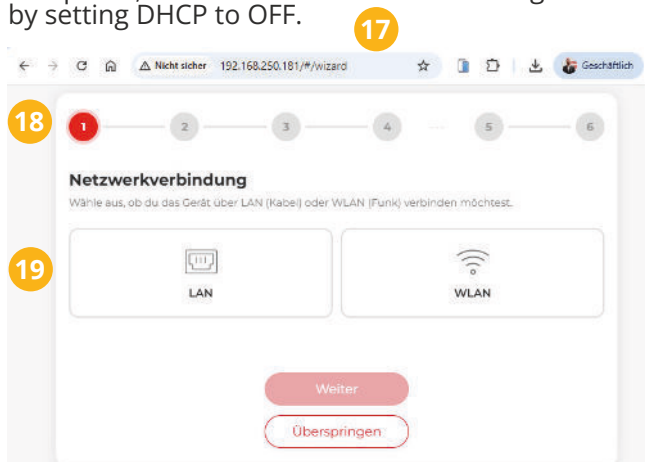
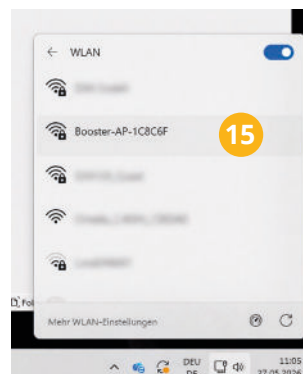
Electrical commissioning

13. Once the electrical installation has been checked, the system can be put into operation and configured by switching on the power supply.
14. Once the power supply has been connected, the status LED on the main module flashes 'violet-green', whilst the 'ON' status LED on the extension unit lights up 'green'.

i If an LED is flashing or lit up red, or is not lit at all, check steps 1–13.

Initial Set-up Set-up wizard

15. The device automatically opens the Wi-Fi access point. Connect to the 'Booster-AP-MAC' Wi-Fi network using a laptop or mobile device.
16. The password can be found on the serial number sticker on the right-hand side of the device, as well as on the separate sticker included in the package; if required, this can be stuck inside the distribution box where it is visible.
17. Open a web browser and enter the IP address „<http://192.168.250.181>“ or „<http://booster.local>“. If several Boosters are installed, the devices can be accessed uniquely using the following command „<http://booster-xxxxxx.local>“ (last 6 digits of the MAC address).
18. Follow the instructions in the setup wizard.
19. Select a network connection: LAN or Wi-Fi.
20. If required, a static IP address can be configured by setting DHCP to OFF.



21. The connected Booster Extension or temperature sensor is automatically detected and can be assigned or deactivated as required.

i Extension not found? Check the connection and the power supply.

22. Start the automatic load detection. The device detects the connected load of the heating element.

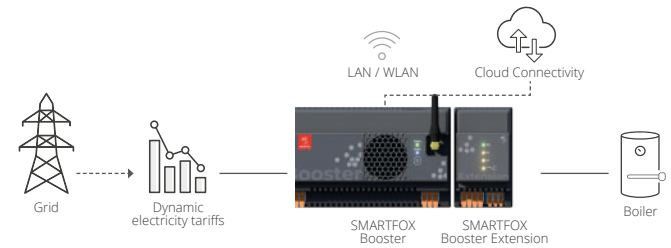
i Load detection failed: Ensure that neither the control (CT) nor the safety thermostat (STC) of the heating element has tripped. Repeat the procedure or enter the power rating manually.

Operating mode

23. Follow the remaining steps depending on the operating mode. You can find more detailed information and functional diagrams under the relevant QR codes.

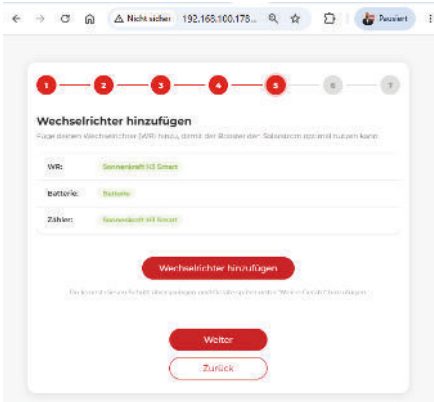
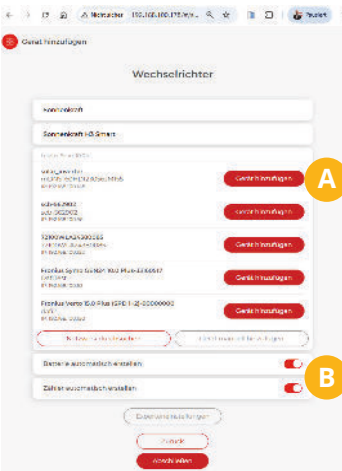
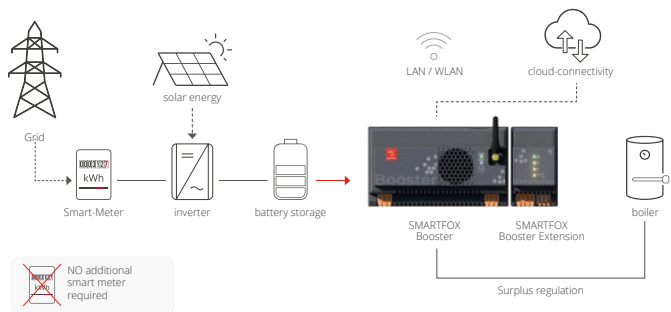
Stand-Alone (Mains + Heating element)

The booster controls the heating element directly from the mains, via a timer, dynamic electricity tariffs (aWATTar, Tibber...) or a temperature setpoint. It includes frost protection, legionella protection and cloud connectivity for remote access and monitoring.



With a PV inverter (Direct Link)

Via Direct-Link, the Booster reads data such as PV surplus, PV output, battery charge level, etc. directly from the inverter via Modbus TCP – no additional meter or energy manager is required. This enables surplus control for maximum self-consumption as well as comprehensive monitoring.



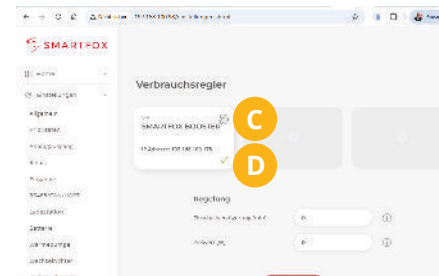
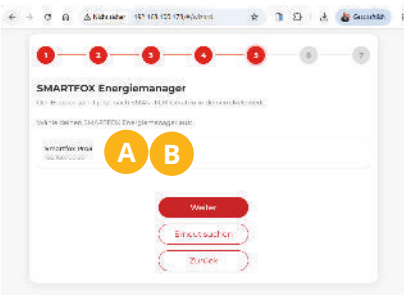
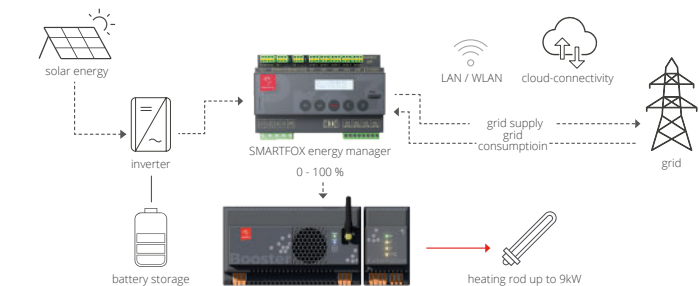
- A. Select a compatible inverter from the list. The Booster automatically scans the network for available inverters (Modbus TCP must be enabled on the inverter; a static IP address is not required).
- B. Meters and battery storage units connected to the inverter are added automatically.



List of compatible Direct Link systems

With SMARTFOX energymanager

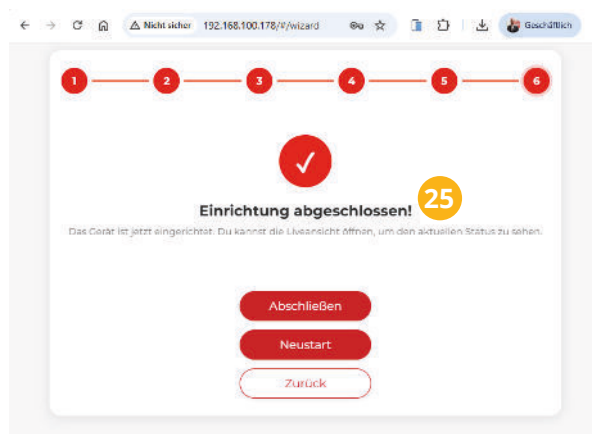
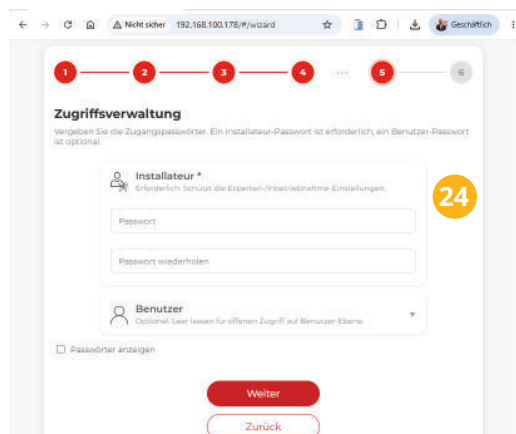
In the fully integrated system, the SMARTFOX Manager coordinates the inverter, smart meter and up to 3 booster units – offering maximum flexibility, intelligent prioritisation and full cloud connectivity for advanced control.



- A. The Booster scans the network for available energy managers.
- B. Select an energy manager.
- C. The Booster is automatically added to the energy manager as a consumption controller.
- D. Further configuration (switching times, minimum temperature, dynamic electricity tariff, etc.) is possible via the settings on the energy manager.

24. Set the installer password. A user password may also be set, if desired.

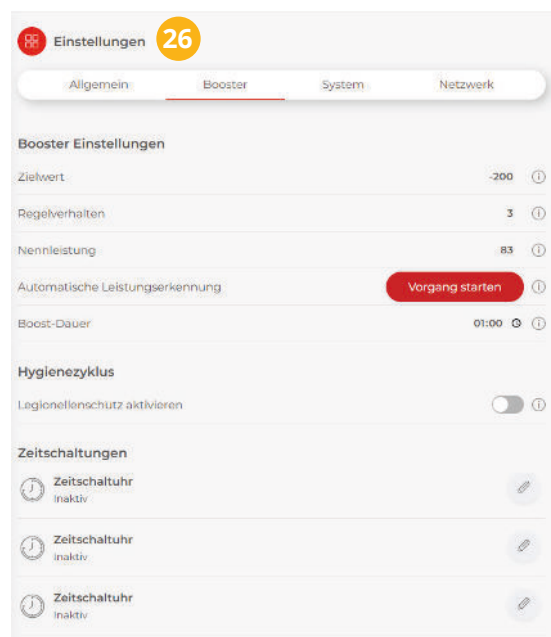
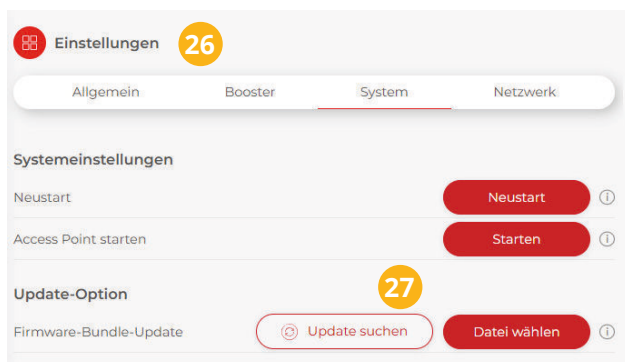
25. The initial setup is now complete.



Settings

26. Depending on the operating mode, further settings such as minimum temperature maintenance, switching times, changeover relays, etc. can be configured. Further information on this can be found in the Installation & Operating Instructions.

27. Before continuing with parameterisation, it is recommended that you check the unit for available updates.



Registration in the web portal / app

28. Open the go2.smartfox.at web portal or the SMARTFOX Go2 App.

29. Log in with an existing account or register.

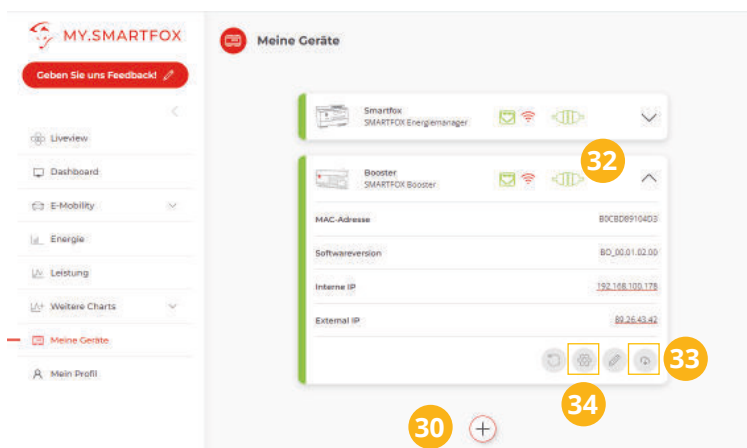
30. Under 'My Devices', add a new device – select the 'SMARTFOX Booster' device group.

31. Scan the QR code for the MAC address on the serial number sticker on the device or packaging, or enter it manually and complete the remaining fields.

32. If the indicator is green and the device is connected, remote access via the web portal and app is established.

33. Button to trigger a remote update.

34. Remote access to the device settings.



The installation and commissioning of the SMARTFOX Booster + Extension is now complete.