

Symphon·Ξ

Configuration Manual — KOSTAL PV Inverter

Version:2026.9.1

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1. Introduction

Manual 2026.9.1

These instructions are used to configure the following KOSTAL PV inverters for integration into the EMS:

KOSTAL Download platform 	• PLENTICORE plus 3.0–10.0 • PIKO IQ 3.0–10.0 • PIKO CI 30–60
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2. Prerequisites

Only KOSTAL inverters of the model series mentioned in the [Introduction](#) with at least the following firmware versions are supported:

- PLENTICORE plus
 - UI version: 01.18.05255 or higher
 - MC version: 01.47 or higher
 - IOC version: 01.45 or higher
 - HW version: 0101 or higher
- PIKO IQ
 - UI version: 01.21.06586 or higher
 - MC version: 01.60 or higher
 - IOC version: 01.60 or higher
 - HW version: 0100 or higher
- PIKO CI
 - Latest firmware (at least V3.10 - April 202211.04), see link: [KOSTAL download platform](#) 

You can check the device’s software versions by selecting *Info*

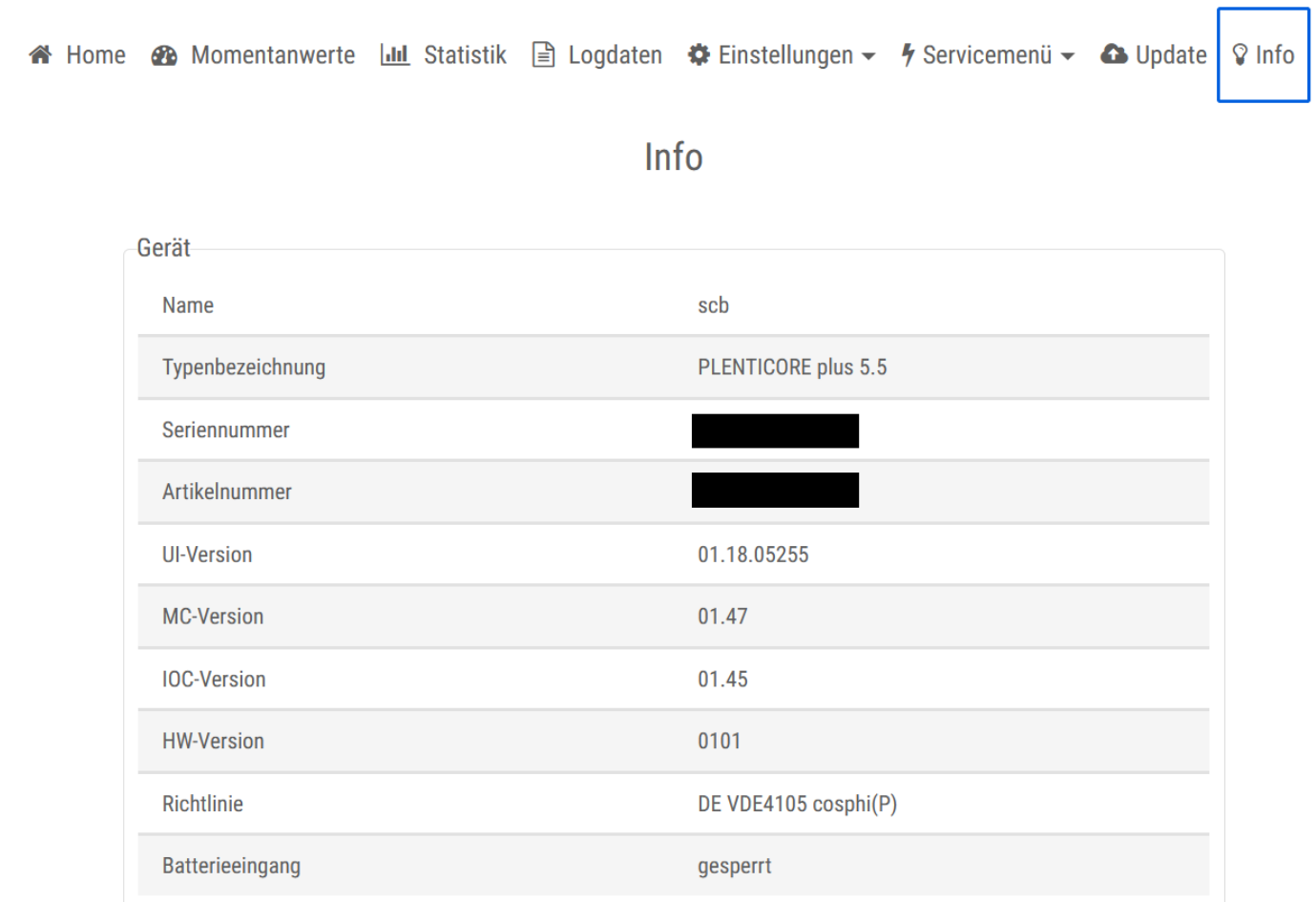


Image 1. KOSTAL web interface - Info

3. Configuration via the Kostal Web Interface

Before integrating the inverter into EMS, you should make sure that all necessary preparations have been made.

This includes configuring the inverter via the web interface.

To integrate the device into the FEMS, please configure it via the web interface. You can access this by calling up the IP address of the inverter in the browser. We recommend setting the assignment of the IP address to "Automatic" when commissioning the device.



To be able to access the web interface, your PC/notebook/smartphone must be in the same network as the inverter.

3.1. Network

1. Settings > Network



Image 2. KOSTAL web interface - Settings - Network

2. Make the following settings here:

Obtain an IPv4 address automatically

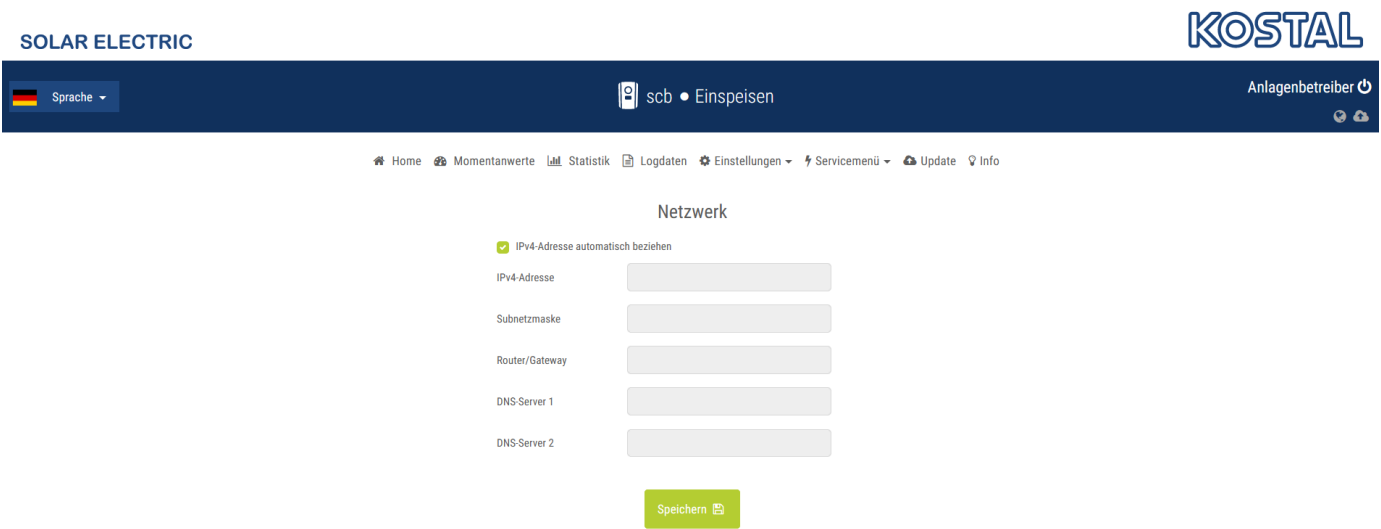


Image 3. KOSTAL web interface - Settings - Network

We recommend deactivating DHCP for the inverter in the router settings so that it always retains the same IP address.

3.2. Ping test

To test the configuration, we recommend pinging the inverter in the local customer network.

In the example below, the inverter uses the address **192.168.178.59**.

```
PING 192.168.178.59 (192.168.178.59) 56(84) bytes of data.  
64 bytes from 192.168.178.59: icmp_seq=1 ttl=64 time=5.34 ms  
64 bytes from 192.168.178.59: icmp_seq=1 ttl=64 time=7.34 ms (DUP!)  
64 bytes from 192.168.178.59: icmp_seq=2 ttl=64 time=5.13 ms  
64 bytes from 192.168.178.59: icmp_seq=3 ttl=64 time=3.77 ms  
64 bytes from 192.168.178.59: icmp_seq=4 ttl=64 time=2.02 ms  
  
--- 192.168.178.59 ping statistics ---  
4 packets transmitted, 4 received, +1 duplicates, 0% packet loss, time 6ms  
rtt min/avg/max/mdev = 2.017/4.720/7.342/1.768 ms
```

Image 4. KOSTAL Ping Test

If the inverter cannot be reached via ping, please check the [\[network\]](#) settings.

3.3. Modbus

1. Settings ▶ Modbus/Sunspec (TCP)

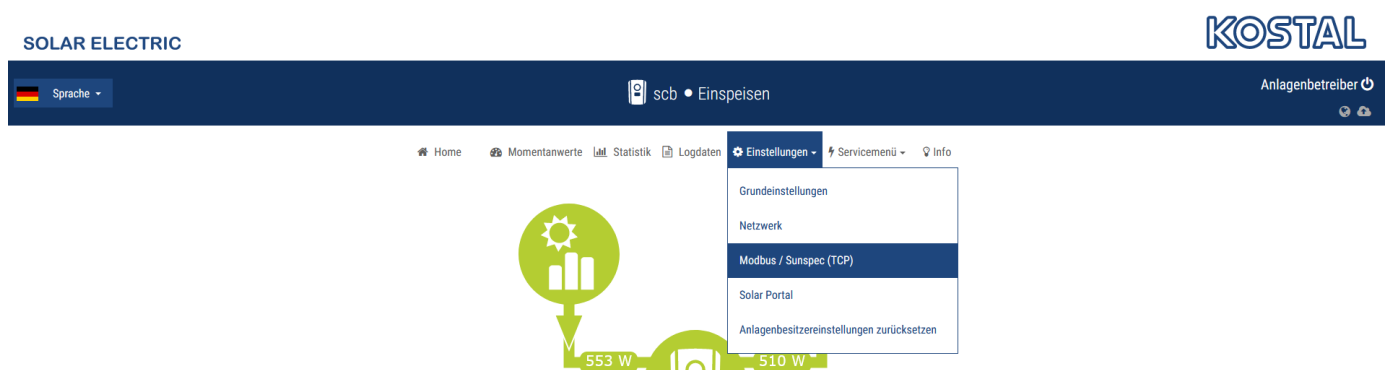


Image 5. KOSTAL web interface - Settings - Modbus

2. Make the following settings here:

- ☐ Enable Modbus
- ☐ Byte order → big-endian (ABCD) Sunspec
- ☐ Modbus Port → 1502
- ☐ Unit ID: 71

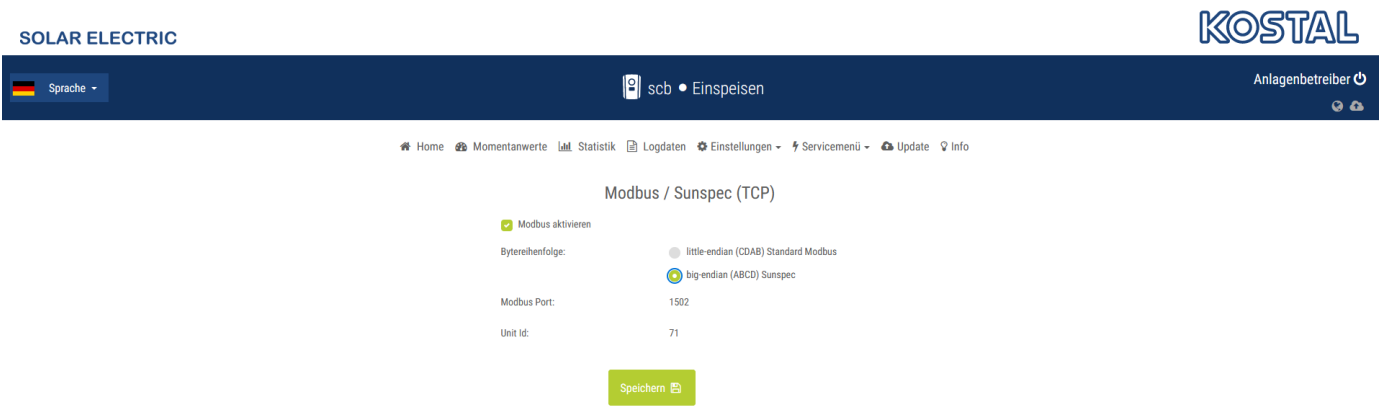


Image 6. KOSTAL web interface - Modbus/Sunspeg (TCP)

4. Integrating the PV inverter into EMS

After you have configured the settings on the PV inverter, you can integrate it into EMS.

Prepare to install the EMS App by following these instructions:

- For the latest versions of EMS:
 - Navigate to the main menu item **Your Energy Journey** > **AppCenter**
 - Follow these instructions: [General Installation Manual for FEMS Apps](#).

After entering the key, you will see the following screen:

PV inverter

Alias*

PV inverter

IP-Address*

192.168.178.85

IP address of the PV inverter.

Port*

502

Port of the PV inverter.

Modbus Unit-ID*

0

The Unit-ID of the Modbus device. Be aware, that according to the manual you need to add "123" to the value that you configured in the PV inverter web interface.

Phase

All

Connected phase(s) of the inverter

INSTALL APP



Some of the input fields are pre-filled.

The alias is the name under which the PV inverter is displayed in EMS. You can choose any name you like, but it should be meaningful.

Required fields are marked with an *.

1. Check the IP address. You can find this either in the web interface of the respective PV inverter or in the list of devices registered on the router (e. g., Fritz!Box). If necessary, adjust the IP address so that they match.
2. The port should be set to **502** in accordance with the standard.
3. For the **Modbus Unit ID**, if a value has already been set in the PV inverter’s web interface, **123 must be added to that value**. Enter this result as the Modbus Unit ID in EMS.
4. Finally, specify which phase(s) is/are connected to the PV inverter.

Complete the installation by selecting [**INSTALL APP**].

The integration of the PV inverter into EMS is now complete.

4. Integrating the PV inverter into EMS

You will then find the integrated PV inverter as a submenu item under [Production in the Heckert Solar App](#).

5. Contact us

For support, please contact:

Symphon-E Service

Service phone: +49 (0) 371 45 85 68 - 100

E-mail service: symphon-e@heckert-solar.com

6. Directories

6.1. List of illustrations

[Image 1.](#) KOSTAL web interface - Info

[Image 2.](#) KOSTAL web interface - Settings - Network

[Image 3.](#) KOSTAL web interface - Settings - Network

[Image 4.](#) KOSTAL Ping Test

[Image 5.](#) KOSTAL web interface - Settings - Modbus

[Image 6.](#) KOSTAL web interface - Modbus/Sunspec (TCP)