

Symphon·Ξ

Configuration Manual — KACO PV Inverter

Version:2026.9.1

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1. Introduction

Manual 2026.9.1

These instructions are used to configure the following KACO PV inverters:

KACO

[Download platform](#) 

TL3 Series

- blueplanet 3.0 TL3 - 10.0 TL3
- blueplanet 15.0 TL3 + 20.0 TL3
- blueplanet 29.0 TL3 LV
- blueplanet 50.0 TL3
- blueplanet 60.0 TL3
- blueplanet 87.0 TL3 - 125 TL3
- blueplanet 125 TL3 - 165 TL3

2. Configuration via the KACO 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 system into the Heckert Solar energy management system, please configure the following settings on your KACO inverter:

TL3 series

1. **Settings**  **Network**
2. **Network**  **DHCP**: Set to **Off** so that DHCP is disabled (This setting is necessary to ensure that the inverter can always be reached at the same IP address through the EMS).
3. **Network**  **IP address**: Set an unused IP address in the address range of the router.
4. **Network**  **Subnet mask**: Set the subnet mask used in the network (default: 255.255.255.0)
5. **Network**  **Gateway**: Set the IP address of the router as the gateway.
6. **Network**  **Modbus TCP**: Set the operating mode to **On** to activate the Modbus/TCP interface.
7. **Network**  **Modbus TCP**: Set the port to **502** (default setting).



The Modbus unit ID in the KACO PV inverter app must be set to '3'.

2.1. Ping test

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

In the example below, the IP address **192.168.188.40** was set for the inverter in the configuration.

```
PING 192.168.188.40 (192.168.188.40) 56(84) bytes of data.  
64 bytes from 192.168.188.40: icmp_seq=1 ttl=64 time=3.23 ms  
64 bytes from 192.168.188.40: icmp_seq=2 ttl=64 time=1.89 ms  
64 bytes from 192.168.188.40: icmp_seq=3 ttl=64 time=3.08 ms  
64 bytes from 192.168.188.40: icmp_seq=4 ttl=64 time=0.889 ms  
  
--- 192.168.188.40 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 6ms  
rtt min/avg/max/mdev = 0.889/2.273/3.229/0.952 ms
```

If the inverter cannot be reached via ping, check the settings in the [Configuration](#).

3. Integrating the PV inverter into EMS

3. 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.

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

4. Contact us

4. Contact us

For support, please contact:

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5. Directories

5.1. List of illustrations