

## Instructions for integrating

# AC•THOR / AC•THOR 9s / AC ELWA 2

## with Sungrow Hybrid SHxxRT



## 1. Default settings on my-PV device

Before commissioning, it is essential that you read the assembly instructions that accompany the device, as well as the operating instructions available on line.

Find the AC•THOR operation manual **here**.

Find the AC ELWA 2 operation manual here.

#### 2. Communication with Sungrow

AC•THOR or AC ELWA 2 are connected to Sungrow in the network via a router. Within this network, the unit receives the information on how much photovoltaic surplus is available from the so-called "LAN" interface on the Sungrow Hybrid. The latest FW version must be installed on the hybrid.

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

When controlled by an inverter, a feed-in meter is required in the system. Otherwise, the query of the inverter does not provide any data.

#### 3. Settings on Sungrow Hybrid

The so-called "LAN" interface of the Sungrow Hybrid (SHxxRT series) can be seen highlighted in the picture.



When communicating with Sungrow, the IP address of the inverter must not change during operation (e.g. by a DHCP router), otherwise the AC•THOR or the AC ELWA 2 will lose the control signal!

### 4. Settings on my-PV device

Select "Sungrow Manual" for the control type either on the display <u>or</u> in the web interface. The IP address of the signal source must then be statically entered on the display under "Ctrl IP".



Alternatively, these settings can also be via the web interface. In the web setup, the parameters "Device ID" and "Device Port" can also be set by Sungrow.

With the "Sungrow Manual" control, my-PV presets device ID 1 and device port 502.

<ul> <li>Control Settings</li> </ul>	
Control type: ELWA Number >1: only 'Slave' selectable. Control source IP address:	Sungrow Manual
Device ID:	1
Device port:	502
Control state:	Modbus multiple Write received
Power timeout:	10
Control target: Negative value means feed-in. Only change this value if you are familiar with the control strategy	-50 W
Block start / stop hour:	0 0 Save

"Power timeout" is not to be changed.

If there is a battery storage system that has to be charged on priority, then the "Control Target" should be left at -150 W. Otherwise, we recommend using -50 W.

my-PV GmbH Betriebsstrasse 12, 4523 Neuzeug www.my-pv.com

