

How to connect the Wattsonic GEN3 inverter via LAN



SHE is not responsible for any errors made during installation. You can connect the SHE module to all supported inverters yourself (see the list of supported inverters). However, the connection may only be carried out by a person with the required electrical qualifications in accordance with Act No. 250/2021 Coll. on occupational safety in connection with the operation of designated technical equipment (Czech Republic), or in accordance with the applicable local regulations. If you feel that the connection exceeds your technical knowledge, you can order professional installation on our website.



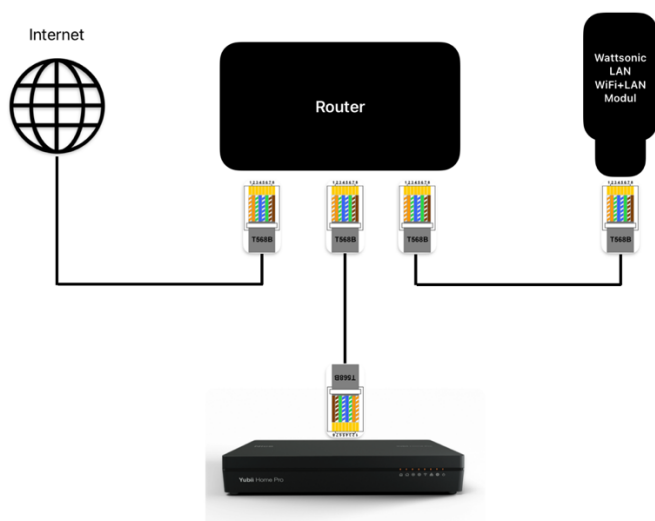
The SHE device is not compatible with other control units. It is not possible to connect several control units at the same time, because their commands or the connection itself would interfere with each other. In addition, most inverters do not allow more than one active connection at a time, even if one device is connected via TCP/IP and the other via RS485.

Required equipment and materials:

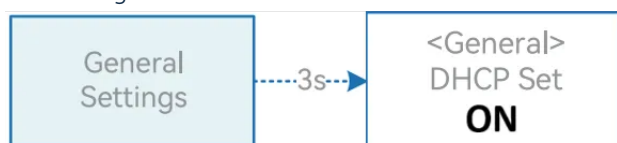
- HC3 or HC3L unit
- Wattsonic GEN3 photovoltaic inverter 6/8/10/12/15/20K-25A-3P
- Wattsonic with a **LAN** module or the newer **Wi-Fi/LAN** module

Connection procedure:

1. The inverter and the HC3/HC3L controller must be connected to the **same network**, see the diagram:



2. Communication is only possible with the **LAN** or **Wi-Fi/LAN** module. After connecting the module, open the network settings on the inverter and enable DHCP:



3. In the inverter menu, open **General Setting** → **Modbus Addr** and check that the value is set to 247. If it is not, change the value to 247 and save the change.

4. Find the IP address of the inverter:
- <https://www.wattsonic.cloud/login>
 - Wattsonic Cloud: Log in → open the device (installation name) → **Real-time info** tab → **IP address** in the **Inverter basic parameters** table

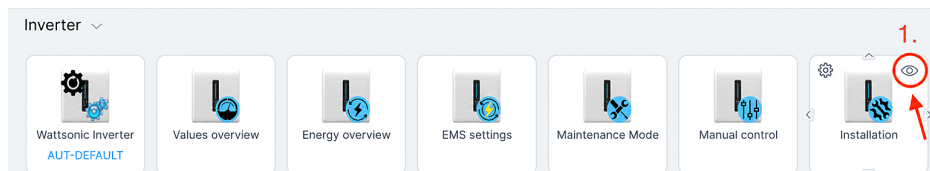
← Real-time info Power/Production Professional parameters Alarm					
Device log					
Device Name [REDACTED] SN [REDACTED] Last update time 17:17:11 06.10.2026 UTC+02:00					
Inverter basic parameters					
Device Status	Normal	Sub-status ⓘ	S22 Export limit enabled	Work Mode	General Mode
Meter status	Normal	Export limit	On	Feed in Grid	12.00kW
Total operation time	18591H	Inverter Temperature	33.7°C	Connected devices	[REDACTED]
Device Type	Hybrid Inverter	Device Model	12K-25A-3P	Rated Power	12.00kW
Slave Firmware Version	V10.02.00.02-V09.54.05.00	Check Code	311218	Communication mode	LAN-RS485
IP address	192.168.88.254	Device role	Independent	Connection date	16:04:50 20.07.2024 UTC+02:00
PV power	0.33kW	Daily PV generation	48.90kWh	Total PV generation	24.80MWh

Settings in the inverter application

Warning: Not all cards and tiles are displayed to all users. Each user selects which cards and tiles are displayed on the Display Settings card (sheViewControl application) – levels SHORT, ADVANCED and ADMIN. If you cannot see a described card, check the settings on this card.

Installation card

If you have not installed the inverter QA application yet, follow the manual "Initial Installation HC3 / HC3L → Installer Application".



After the installation, the application tiles appear on the HC3 unit desktop (depending on your display settings): **Wattsonic Inverter**, **Values overview**, **Energy overview**, **EMS settings**, **Maintenance Mode**, **Manual control** and **Installation**.

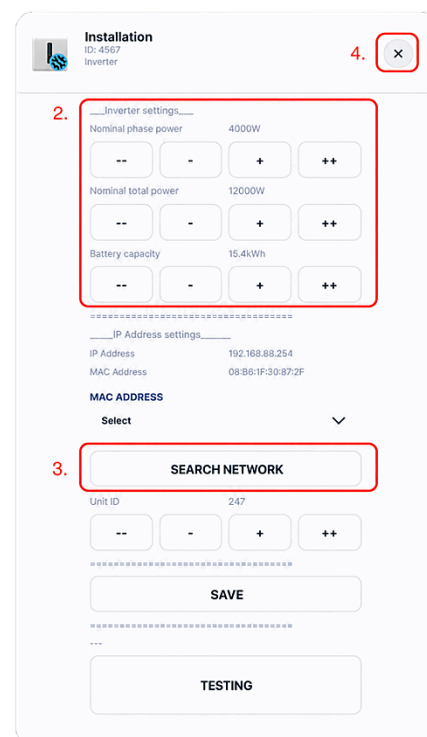
1. Displaying the installation parameters

- Hover the cursor over the **Installation** tile and click the **eye** icon in its top-right corner – the **Installation** card with the detailed installation parameters opens.

2. Setting the parameters of the inverter and the battery storage

First enter the values according to the specific installation:

- **Nominal phase power** (W)
- **Nominal total power** (W)
- **Battery capacity** (kWh)



Installation
ID: 4567
Inverter

1. 

2. **___Inverter settings___**
Nominal phase power 4000W
Nominal total power 12000W
Battery capacity 15.4kWh

3. **___IP Address settings___**
IP Address 192.168.88.254
MAC Address 08-B8-1F-30-87-2F

MAC ADDRESS
Select 

4. **SEARCH NETWORK**

Unit ID 247

SAVE

TESTING

Establishing communication with the inverter

3. Searching the network

- Click the **SEARCH NETWORK** button.

4. Refreshing the **Installation** card

- Close the **Installation** card and open it again.

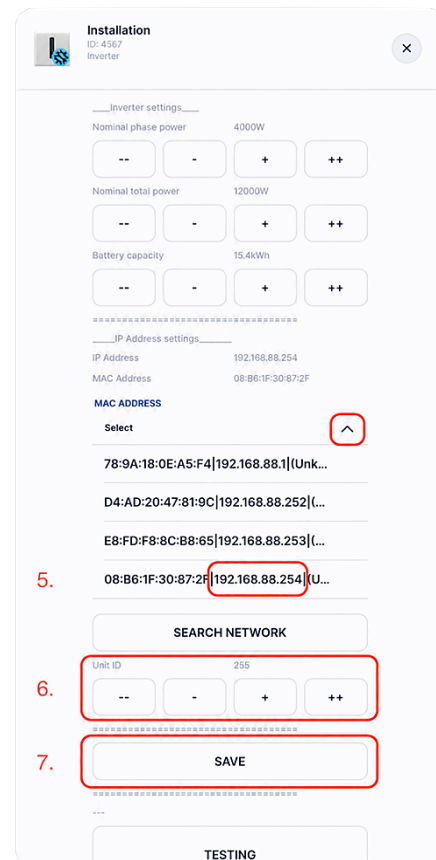
(This reloads the devices available in the network.)

5. In the **MAC Address** list, select the inverter IP address that you found in Wattsonic Cloud (see the previous steps).

6. Set **Unit ID** to **255** (applies to the LAN connection – Modbus TCP; leave **Modbus Addr** at 247 in the inverter).

7. Saving the settings

- Click the **SAVE** button and close the **Installation** card.



Installation
ID: 4567
Inverter

— Inverter settings —
Nominal phase power 4000W
Nominal total power 12000W
Battery capacity 15.4kWh

— IP Address settings —
IP Address 192.168.88.254
MAC Address 08:B6:1F:30:87:2F

MAC ADDRESS

Select

78:9A:18:0E:A5:F4|192.168.88.1|(Unk...
D4:AD:20:47:81:9C|192.168.88.252|(L...
E8:FD:F8:8C:B8:65|192.168.88.253|(L...
08:B6:1F:30:87:2F|192.168.88.254|(U...

5.

SEARCH NETWORK

Unit ID 255

6.

SAVE

7.

TESTING

EMS settings card – Default Settings

Warning: The default values must always be set. The application sets these values back whenever external control ends, so values set directly in the inverter (either by the application or in another way, e.g. the web interface or the inverter app) will be overwritten with these default values.

1. Open the **EMS settings** card.
 - Hover the cursor over the **EMS settings** tile and click the **eye** icon in its top-right corner – the card with the detailed parameters opens.
 - Here you set the basic parameters for controlling the inverter and the battery.
2. Inverter mode (**Working Mode Default**)
 - For the Wattsonic inverter, set the mode to **General** (default value).
3. Minimum SOC (State of Charge) (**SOC End Default**)
 - Determines the level to which the battery may be discharged.
 - For example, a value of 15 % means that the battery is discharged to no less than 15 % of its capacity.
4. Export limit (**Export Limit Default**)
 - Copy the value from the settings made by the installation company that installed the PV system.
 - The export limit is determined by the contractually agreed maximum export power (specified in your agreement with the distribution system operator, DSO).
 - Calculation formula:

contractually agreed maximum export power (e.g. 8.88 kW) ÷ inverter power (e.g. 12 kW) x 100 = 74 %

5. Export enabled / disabled (**Export Limit Status Default – ENABLE / DISABLE**)
 - This option switches the active control of the export limit according to the setting above on or off.
6. PV power (**PV Power Max Default**)
 - You can find the value on the rating plate on the side of the inverter.

EMS settings
ID: 4564
Inverter

CHARGE TO MINIMUM

CHARGE TO MAXIMUM

BATTERY MAINTENANCE

EMS Validity PV	Valid
EMS Validity Load	Valid
Export limit	Invalid
Production limit	Invalid
Export power setpoint	---W
Import power setpoint	---W

Default Settings

Working Mode Default: General

PV Power Max Default: 10000W

SOC End Default: 15%

Export Limit Default: 75%

Export Limit Status Default: Enabled

DISABLE ENABLE

Communication check:

- After the SHE system starts, check that the communication works correctly. The inverter tiles on the HC3 unit desktop show current values (for example PV power, battery SOC and load).

