

Installation manual

CheckWatt CM10 and SAJ Hybridväxelriktare

Updated 2025-04-08

Installation of CheckWatt CM10 and the SAJ inverters is performed according to their manuals. This manual describes how communication between the CheckWatt CM10 and SAJ inverter is established.

Communication between CM10 and inverter is carried over modbus TCP/IP via ethernet cable CAT6 FTP. Ensure that you have the correct dongle for the inverter.

Compatible inverters:

SAJ H2 – series-5k-30k (with Wifi+LAN+Cloud AIO3 dongle)

SAJ HS2 – series-5k-10k (with/built-in Wifi+LAN+Cloud AIO3 dongle)

SAJ HS3 - series 5k-12k

Max inverters per CM10: 2



Firmware update inverter

To ensure that SAJ systems work with CheckWatt, an update to the inverter is required.

Email the CM10 number to your contact person at CheckWatt once the installation has been updated. Send the following email to SAJ, zhen.li@SAJ-electric.com

Till: zhen.li@SAJ-electric.com

Ämne: SAJ Inverter Update for VPP Services with CheckWatt [SERIENUMMER]

Please update the following system for VPP Services with CheckWatt.

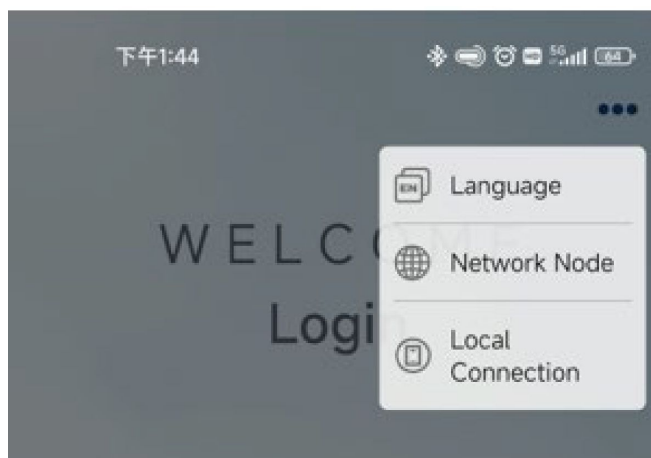
Inverter model: SAJ Hybrid inverter xxx

S/N: XXXXXXXXXXXXXXXX

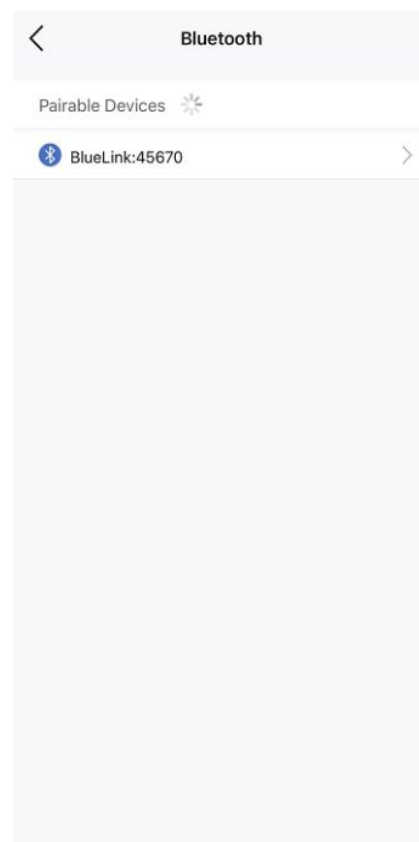
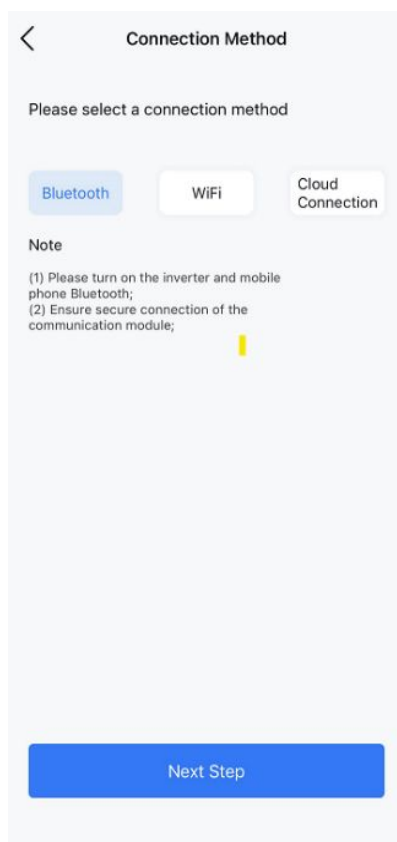
Regards [Name]

1. Internet settings

1 a) a) Open the app
eSAJ Home and select
local connection via

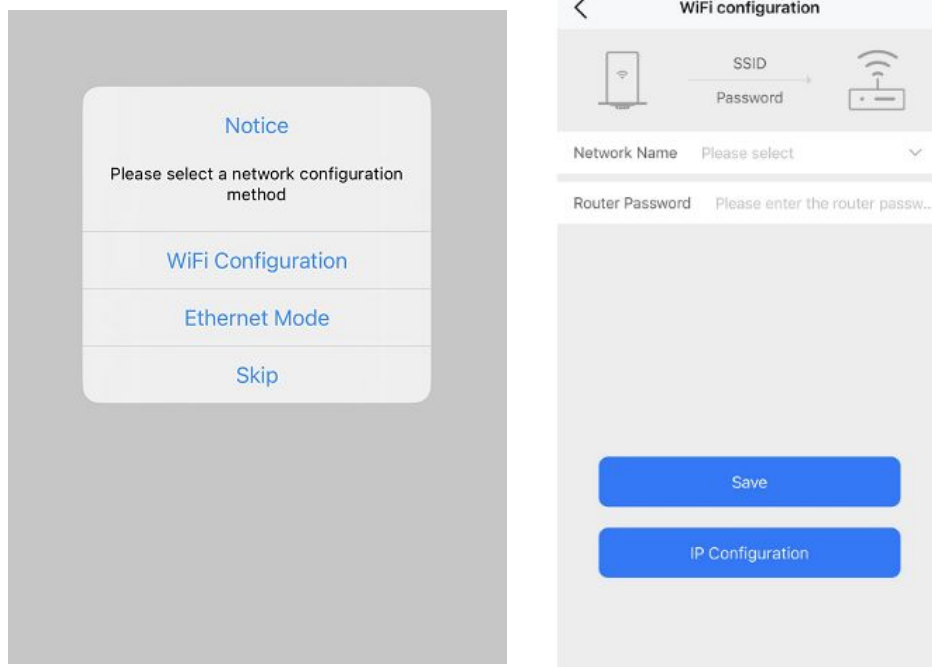


1 b) Select **Bluetooth** to
connect **AIO3 dongle**
to inverter.



1. Internet settings

1 c) Select **WiFi** to connect the inverter to internet.



1 d) Click **Communication module.**



1. Internet settings

1 e) Click **Settings** and select **Auto** under **Module Mode Settings** to have both ethernet and WiFi working for the inverter and CM10.

Communication Module

Module SN
MS360J2236025073

Model
eSolar A10S

Product Code
0090050695500

Firmware Version
v1.027

Hardware Version
v1.001

Working Modes
auto

WiFi

Connect up

MAC Address D8:D6:1A:2A:1C:28

IP 172.20.10.7

Mask 255.255.255.240

Gateway 172.20.10.1

Router SSID ZL-iphone

Router BSSID CA:68:8A:62:18:8C

Router Signal -41dBm

Ethernet

Connect up

MAC Address 88:1B:1A:7A:1F:79

IP 0.0.0.0

Mask 0.0.0.0

Gateway 0.0.0.0

Communication module

Module mode setting

Wi-Fi configuration

Network diagnosis

Factory data reset

Restart module

Configuration done

Module Mode Settings

Module Mode Settings
auto

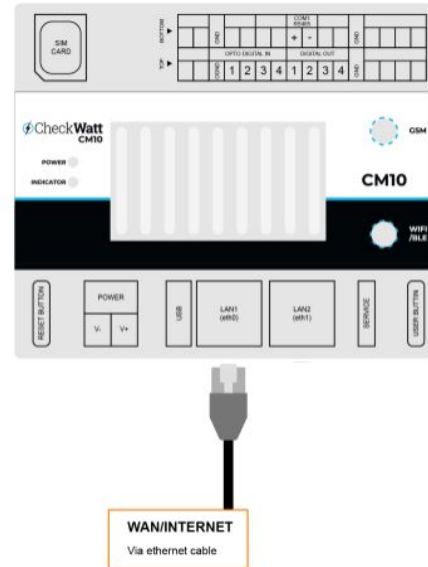
Save

2. Physical connection between CM10 and SAJ

Connect the WAN (Ethernet cable) between the property's router* and **LAN 1 (eth0)** on the CM10 for internet connection to the CM10.

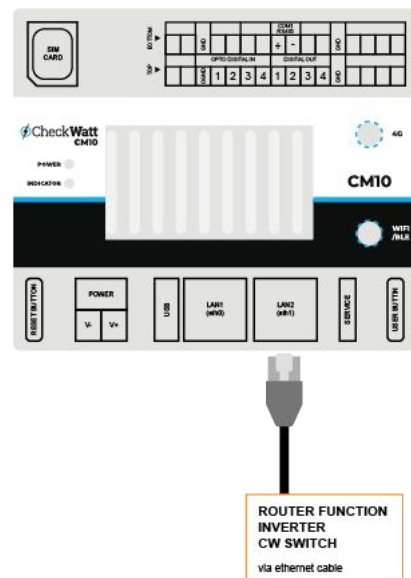
** or other network equipment such as PLC-modem, wifi-repeater or network switch.*

NOTE! LAN 1 and LAN 2 must not be mixed up as they have different functions.



Connect the LAN (Ethernet cable) to **LAN 2 (eth1)** on the CheckWatt CM10.

NOTE! LAN 1 and LAN 2 must not be mixed up as they have different functions.



2. Physical connection between CM10 and SAJ

For H2 & HS2

Connect the LAN (Ethernet cable) from the LAN2 port on the CheckWatt CM10 to the **RJ45 port** on the SAJ Aio3 module.

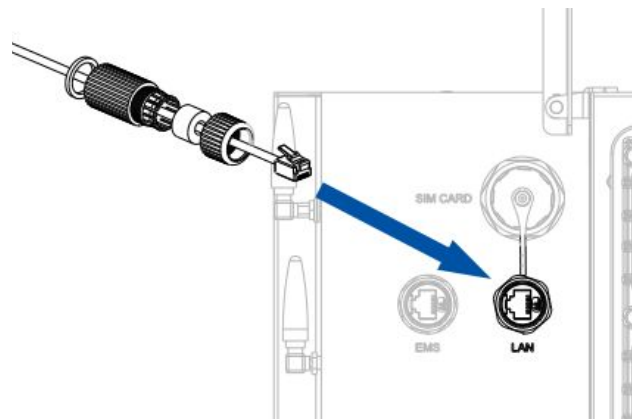
The inverter will now be supplied with internet via CheckWatt CM10.



For HS3

Connect the LAN (Ethernet cable) from the LAN2 port on the CheckWatt CM10 to the **LAN port** on the HS3.

The inverter will now be supplied with internet via CheckWatt CM10.



3. Verify internet connection

Verify internet connection and IP-address from CheckWatt CM10

Same steps as in 1d.

Verify that IP-adress är in line with **installation manual for CM10**.

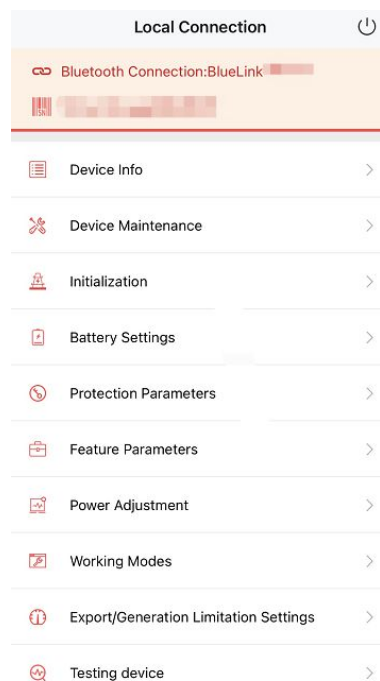
Communication Module	
Module SN	WA380J2114029073
Model	eSolar AI03
Product Code	1028002506055500
Firmware Version	v1.027
Hardware Version	v1.001
Working Modes	auto

WIFI	
Connect	up
MAC Address	B8:D6:1A:2A:1E:28
IP	172.20.10.7
Mask	255.255.255.240
Gateway	172.20.10.1
Router SSID	ZL-iphone
Router BSSID	0A:68:9A:62:18:8C
Router Signal	-41dBm

Ethernet	
Connect	up
MAC Address	B8:D6:1A:2A:1E:2B
IP	0.0.0.0
Mask	0.0.0.0
Gateway	0.0.0.0

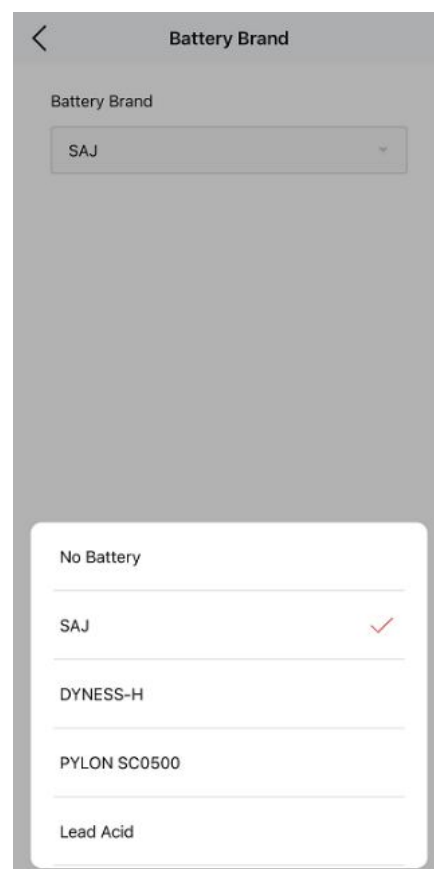
4. eSAJ Home settings

Open **ESAJ Home** and connect to the inverter via bluetooth or cloud.



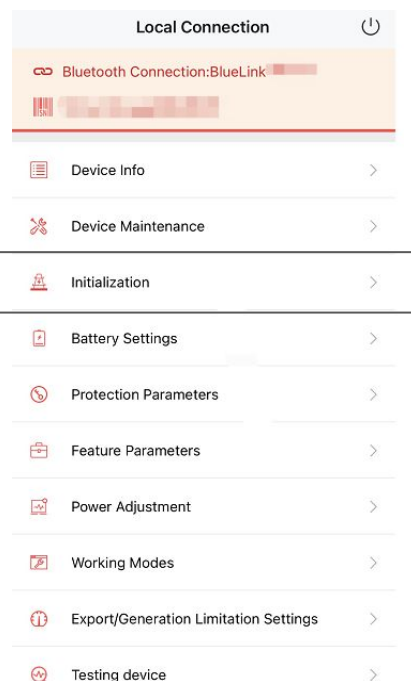
Select **SAJ** in Battery settings.

Click **Save** after the change.



4. eSAJ Home settings

Click **Initialization** and select grid for the country.



Disable **Export limitation** (if it is enabled power from the inverter cannot be fed into the grid).

Click **Save** after the change.

