

Installation manual

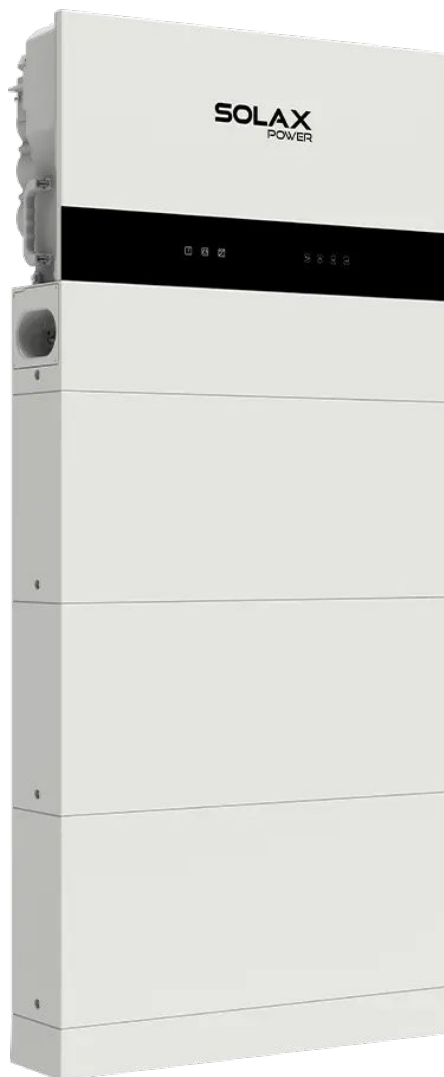
CheckWatt CM10 and Solax X3-IES inverter

Updated 2024-09-13

Installation of CheckWatt CM10 and Solax X3-IES inverter is carried out according to their respective installation manuals. The following documentation specifically describes how communication is established between CheckWatt CM10 and the Solax X3-IES inverter.

Communication between the CM10 and Solax X3-IES inverter is done using Modbus RTU via a twisted pair copper cable (RS485).

Maximum number of inverters per CM10: 1

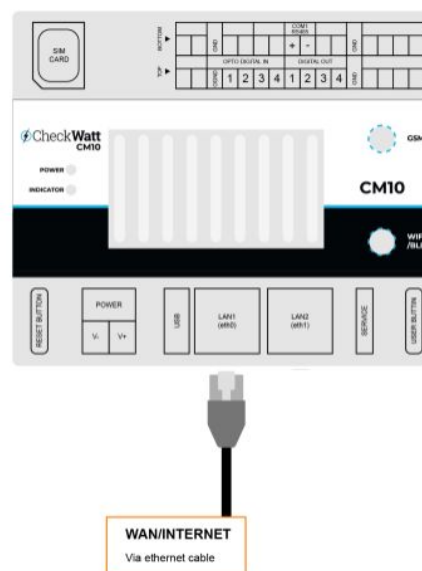


Installation: Internet connection and communication

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.

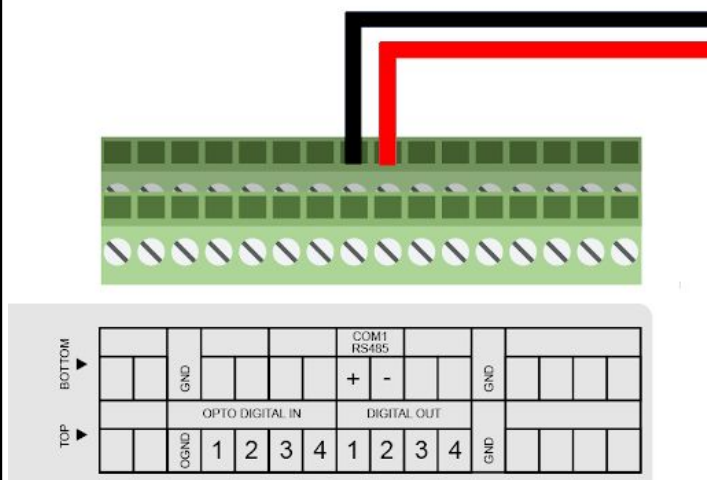


Installation: Internet connection and communication

Connect **cable A (black in the image)** to the back row terminal #8 marked **COM+**.

Then connect **cable B (red in the image)** to the back row terminal #9 marked **COM-**.

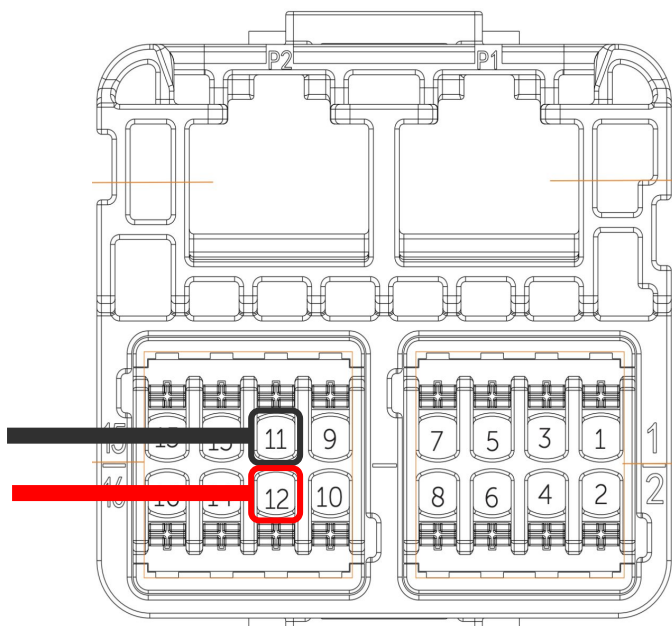
Note: Make sure not to mix up the polarity of these cables, as this will result in communication failure.



These two cables should then be connected to the Solax X3-IES **COM port**.

Cable A (black in the image) should be connected to **pin 11** (RS485A).

Cable B (red in the image) should be connected to **pin 12** (RS485B).



Firmware update

An update of the inverter is required for the control to work.

Send the following email to SolaX:

To: service.nordic@solaxpower.com

Subject: Solax Inverter Update for VPP Services with CheckWatt [SERIAL NUMBER]

Please update the following system for VPP Services with CheckWatt.

Inverter model: Solax X3-IES

S/N: XXXXXXXXXXXXXXXX

Required version: ARM: 011.58, DSP: 014.06

Regards [Name]