PV Supernode – checklist

In order to improve the implementation process before starting it, please follow the recommendations below.

Preparation of the inverters	
Connect the RS485 communication cable from the PV Supernode in series to the following inverters	☐
Supply the inverters on the AC side	☐
Update firmware to latest available version	☐
Set modbus ID - different IDs on different inverters on the same RS485 loop	☐
Set communication protocol: • modbus (for most inverters) • Sunspec (e.g. for Solar Edge inverters)	☐
Set communication protocol: • baud rate: 9600 • parity: n • stop bits: 1 • byte size: 8	☐
Disconnect other devices from the serial communication ports RS485, RS232 - simultaneous connection of another device to the serial ports causes disruption of the serial communication	☐
Preparation of the weather station	
Connect the RS485 communication cable from the PV Supernode to the weather station	☐
Supply power to weather station	☐
Set modbus ID	☐
Set communication protocol: • baud rate: 9600 • parity: n • stop bits: 1 • byte size: 8	☐
Prepare energy analyser	
Connect RS485 communication cable from PV Supernode to energy analyser	☐
Supply energy analyser	☐
Set modbus ID	☐
Set serial communication parameters: • baud rate: 9600 • parity: n • stop bits: 1 • byte size: 8	☐
RS485 serial communication	
It is recommended to use shielded 24 AWG network cables with an internal resistance of less than or equal to 1.5 Ohm/10 m and an outer diameter of 4.5 mm to 7.5 mm as RS485 communication cables. When laying communication cables, ensure that they are separated from power cables and away from sources of interference to prevent communication interference.	

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