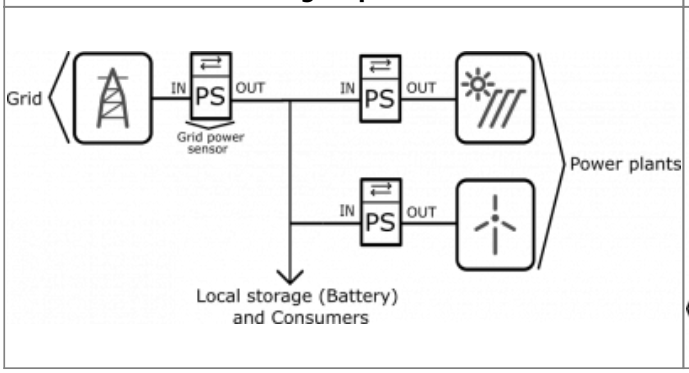
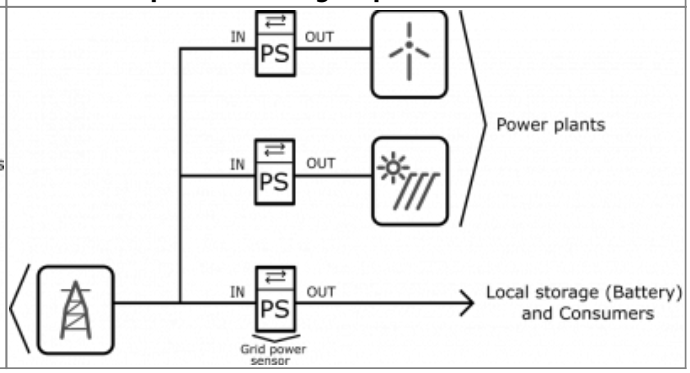
# Power plant connection

The power plants can be connected to the grid in two ways:

| serial with grid power sensor | parallel with grid power sensor |
|---|---|
|  |  |



When configuring the power plant, select

- **in**: serial (**in**ternal) with grid power sensor
- **ex**: parallel (**ex**ternal) with grid power sensor

The power plants are configured as internal by default.

## PV inverter

Obtaining relevant data from photovoltaic is possible by two ways:
1. adding power-sensor to measure produced electricity by PV (no connection to interver) - on how to add power sensor please see Power Sensor
2. connecting PV inverter by Modbus TCP to EVSE (only for SolarEdge inverters)

### EVSE and PV inverter connection

To add inverter on HEMS configurator:

- on settings page inside source table, select SolarEdge inverter. Please see settings
- on io mux page define IP address for inverter. Please see io_mux

To setup Modbus TCP on Inverter using SetApp:

- Select Site Communication menu
  - RS485-1 → Protocol → SunSpec (Non-SE Logger)
  - RS485-1 → Device ID, and enter the number 1
  - Modbus TCP and set to Enable
  - set TCP port to 502

Note:
The TCP server idle time is 2 minutes. In order to leave the connection open, the request should be made within 2 minutes.

It is important to follow rules above, firstly to set HEMS configurator following Inverter setup.

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