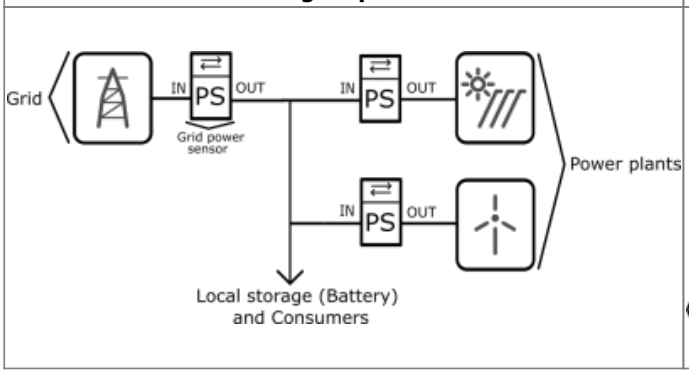
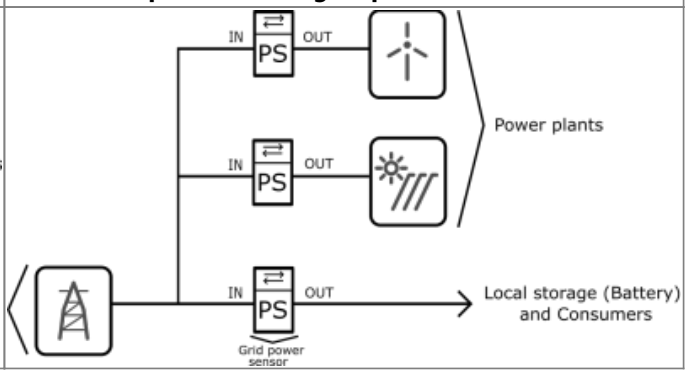
Power plant connection

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 set 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 due to 2 minutes time frame.

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