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GX SolarEdge Manual

1. Introduction

You can connect your GX Device with a SolarEdge PV solution, using the ModbusTCP Sunspec protocol. Sunspec is an industry standard protocol for exchanging PV Inverter yield information.

- Zero Feed-in for SolarEdge is not available when used with a Victron System.
- Frequency shift power control, as required in a AC-Coupling system might work, but has not been tested.

With those limitations, it is possible for the SolarEdge to be used in ESS systems where feed-in to the grid is allowed, but only when connecting the SolarEdge to the AC-input of the Victron inverter/charger. In other sorts of systems, for example Off-grid systems, or ESS systems in areas where grid feed-in is not allowed, using a SolarEdge PV solution is not supported by Victron.

Note that its not possible to use the SolarEdge Wattnode meter when used in a Victron ESS System. In laymans terms, doing so will put two captains on the same ship, both trying to regulate the power flow at the utility connection, which will fail / be unstable.

2. How to configure

- 1. Ensure that the GX Device and the SolarEdge system are both on the same LAN or WiFi network.
- 2. Enable ModbusTCP support on your SolarEdge system. Consult the SolarEdge documentation for that
- 3. The Modbus Device id has to be set at 126. Some SE inverters might have that by default. Changing it is done in the SE inverter menu, configuration, RS485-1 menu. Although this is in the RS485 menu it also sets the ID for modbus over TCP-IP.
- 4. On the GX Device, navigate to Settings → PV Inverters. Search for the Solar Edge and complete the configuration.

RS485-1 menu on the Solar Edge, showing the Device ID setting:



Details:

- 1. The SE2200H SE6000H range (HD-wave) was specifically tested, though several others are reported to work too.
- 2. During testing, we found that the SolarEdge PV Inverter accepts just one concurrent TCP connection. Additional connections are rejected.

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Last update: 2019-05-26 23:23

