

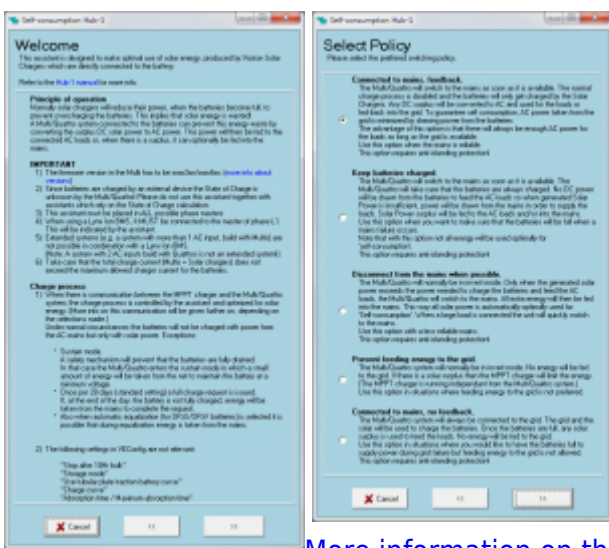
# Overview of available Assistants

Click on the thumbnails to see the full screenshot.

## 1. Assistants related to Solar

Make sure to read [Configuring solar systems with Quattros and Multis](#) when configuring a solar system.

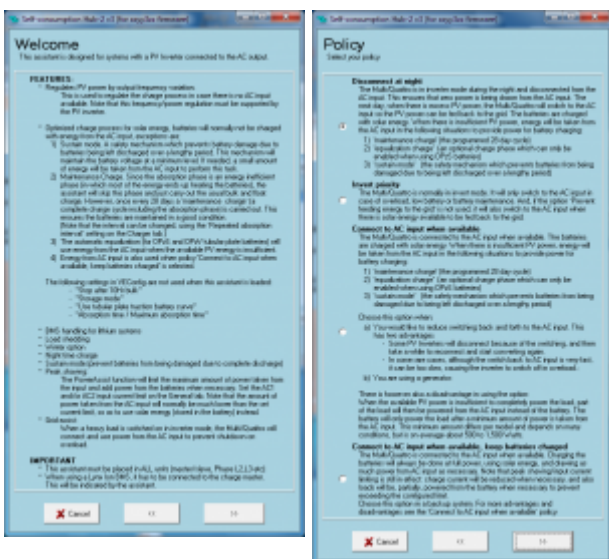
### Self-consumption Hub-1 - for dc-coupled systems



Only for hardware with new microprocessor (26 or 27).

[More information on the Self-consumption hub-1 Assistant.](#)

### Self-consumption Hub-2 v3 - for ac-coupled systems



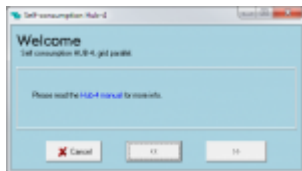
Only for hardware with new microprocessor (26 or 27).

Take note of the [factor 1.0 rule](#). See also our [blog post on the Self-consumption Hub-2 Assistant](#).

## Self-consumption Hub-2 v2 - for ac-coupled systems

Use only on hardware with old microprocessor (19 or 20). On newer systems, use the version 3 instead, see above. Take note of the [factor 1.0 rule](#).

## Self-consumption Hub-4 / grid parallel



Only for hardware with new microprocessor (26 or 27). See the also the [Hub4 / grid parallel manual](#).

## PV Inverter support



Used in:

- Off-grid PV installs
- Systems using the Hub-4 Assistant with a PV Inverter connected to the output of the Multi or Quattro.

Take note of the [factor 1.0 rule](#).

## 2. Functional Assistants

### Generator start and stop



Automatically start and stop a generator based on battery state of charge and actual load of a system. Note that automatic genset start/stop functionality is also available on the Virtual switch tab, which is easier to configure and does not require uploading another type of firmware. See the PDF [VE.Bus firmware versions explained](#) for more information about the different firmware types.

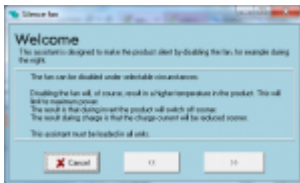
This Generator start and stop Assistant is also the one to use to [configure Ignore AC Input using Assistants](#).

### AC Current sensor



Reads PV Inverter current, using an AC Current sensor (CSE000100000), connected to a VE.Bus product. More information available in the [AC Current sensor manual](#).

### Silence fan



Disable the fans at night with a simple external switch, to ensure a quiet night. Very useful for boats and motorhomes.

### Input current limit control



Automatically set the input current limit to a predefined value based on the state of an aux input or rpm measured with the 1140 interface. Used in the following systems:

1. A variable speed generator, flywheel generator or waterturbine, where the available AC power depends on the rpm. See the [Interface 1140 \(ASS030510000\) manual](#) for more information.
2. Vehicles or boats that have two different types of shore plugs. One high power plug and one low power plug. Use the assistant to automatically set the input current limiter based on the used plug.
3. And there are more situations that can come to mind, for example a Multi connected behind a transfer switch.

### Charge current control



Sets the charge current to a predefined setpoint, based on the active AC Input (for Quattros) or the state of an aux input.

## Safety switch



Used to wire an emergency stop button to a VE.Bus system.

## VE.Bus BMS support



Required in combination with a [VE.Bus BMS](#), used with our [12.8 V Lithium batteries](#). This Assistant communicates with the BMS and controls the Multi based on the BMS measurements.

## Lynx Ion BMS support



Required in combination with a [Lynx Ion BMS](#), used with our [24 V 180 Ah Lithium system](#). This Assistant can also be used to control the Multi with a third party Lithium system including BMS. See our PDF [Connecting other lithium battery systems to Multis and Quattros](#) for more information.

## 3. Advanced Assistants

### Programmable relay



### Relay locker



## General flag user



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Last update: **2016-09-27 11:59**

