/ Battery Charging Systems / Welding Technology / Solar Electronics

Fronius
SHIFTING THE LIMITS

FRONIUS SOLAR.CONFIGURATOR

Training document

EN

Version 1 07/2013 SS

Solarelectronics Division

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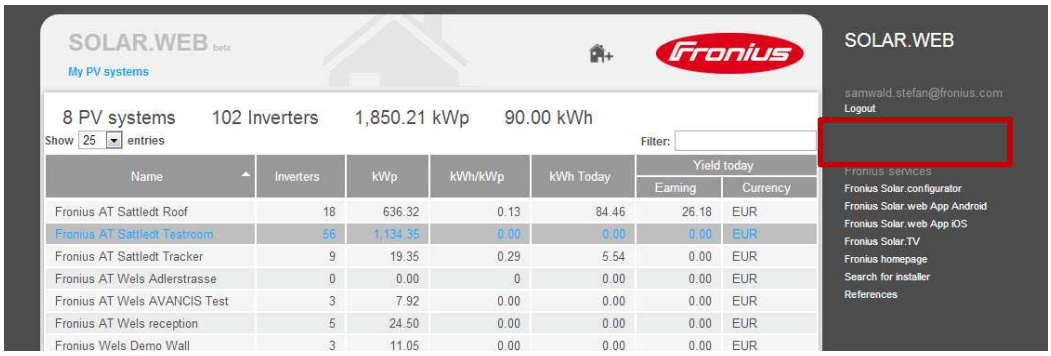
1 FRONIUS SOLAR.CONFIGURATOR

1.1 How to enter the Solar.configurator

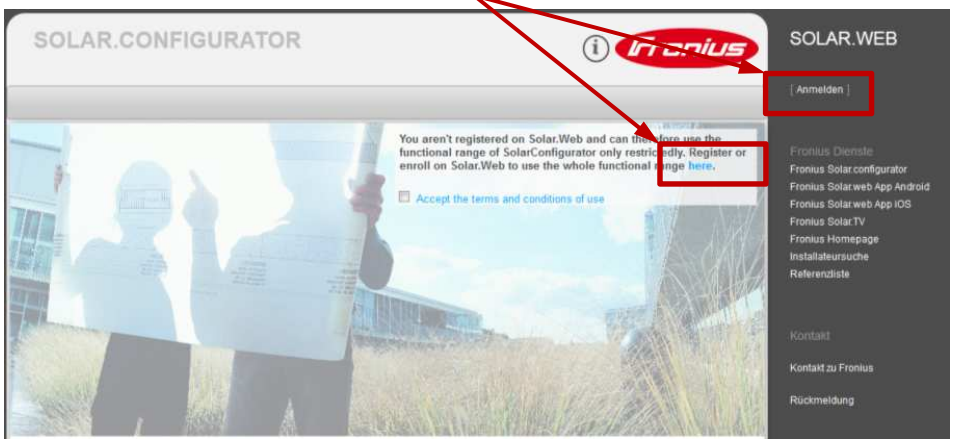
The Fronius Solar.configurator is directly available via the link http://solarconfigurator.solarweb.com/Solar.Configurator/ or per Fronius Solar.web via "Fronius Solar.configurator"



1.2 User account

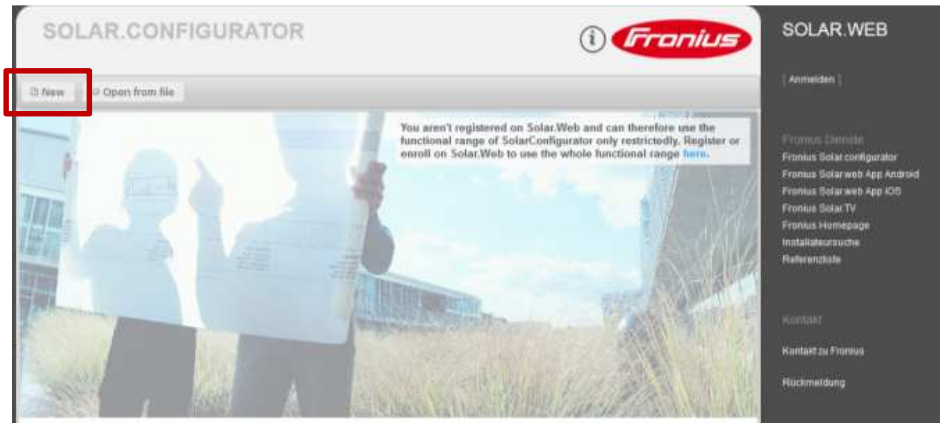
It is possible to use the Fronius Solar.configurator in two different modes:

- Guest account
  - Login is possible after acceptance of the terms and conditions of use
- Registered user
  - Login is via Fronius Solar.web possible



1.2.1 Guest account

With the guest account the user gets the possibility to do an inverter configuration in the single inverter layout and in the module field calculation as soon the user clicks on the button “**New”**



- Possibility to save the system configuration on the computer or external memory.
  With the button “Open from file” a window appears to choose the storage where the configuration is stored.

1.2.2 Registered user

Possibility to do an inverter configuration in the single inverter layout as in the module field calculation as soon the user click on the button “**New”**.

Mayor differences compared to the guest account:

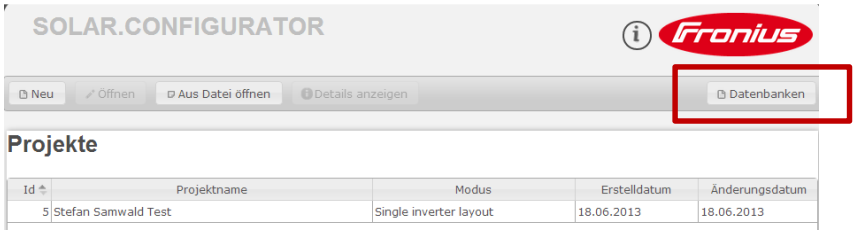
- The registered user is able to store the system configuration in the database and open this again
- Overview about all realized system configurations
- Possibility to manually add new modules

1.3 Add a new module

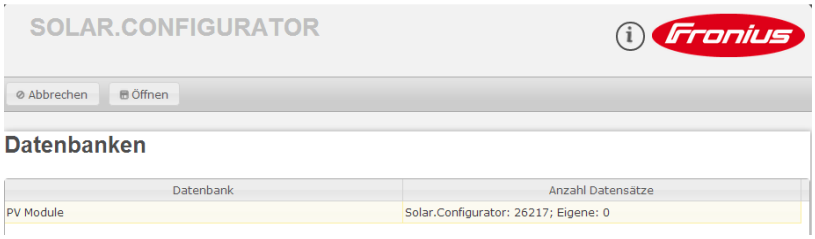
If a module is not available in the database is it possible to add this manually. Please consider that only a registered user is able to make use of this feature.

1.3.1 How to add a new module

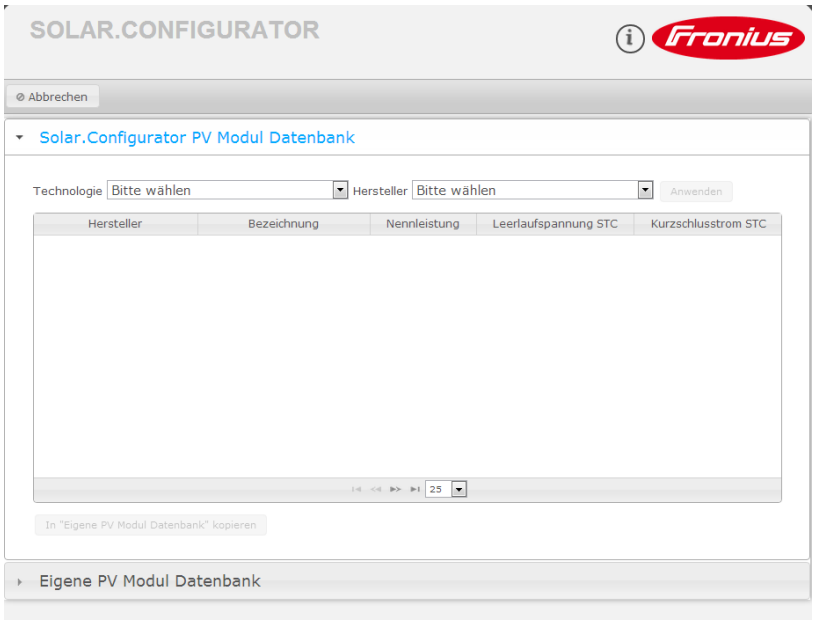
- Press the button „database“.



/ A new window appears where the actual version of the database is visible.
Select the database which is called “PV Module” and press the button “open”



/ At the next step is it possible to choose between the database **“Solar.configurator PV module database”** and “**Own PV module database”.**
In the case that the module manufacturer is already listed in the database choose that module from the “Solar.configurator PV module database” and copy to the “own PV module database” for the further editing. If the module is brand new choose **“Own PV module database**” and press the button **“New”** to enter all required values.



2 EXPLANATIONS

2.1 Location selection

/ Possibility to search a location with the postal code or the location name. A further search function is to look in the map for the right location and to set the flag there.

2.2 Inverter filtering

/ The Solar.configurator does a basic filtering for the inverters. Depending on the location and the national standards the proper inverters will be selected.

2.3 Explanation

/ Power ratio: $PR\ [\%] = \frac{\text{PV power [kWp]}}{\text{Inverter DC max. power [kW]}}$

Relation of the module power (module power @ STC) and the inverter DC max. power

/ Profit ratio: $PR\ [\%] = \frac{\text{Inverter AC energy [kWh]}}{\text{PV energy ideal [kWh]}}$

Relation of the inverter produced energy to the PV generator produced energy.

The amount of energy refers to the period of a whole year

/ Inverter AC energy → Energy which the inverter(s) produce in a period of one year (This value become calculated with the value of the location, PV-generator, inverter, dimensioning)

/ PV energy ideal → Peak of the ideal energy which the PV-generator can provide in a period of one year (This value become calculated with the values from the location and the PV-generator)