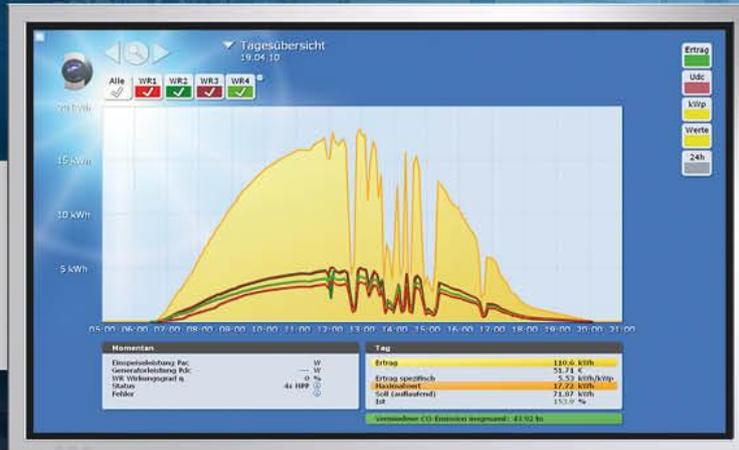




Solar-Log™
by Solare Datensysteme GmbH
MAXIMIZED SUNPOWER



The interface displays a list of events for a plant. The table below shows the event details.

Zeit	Typ	Auslöser	Werte	24h
10.01.2010 22:36:10	Verbindungsbruch	WV Typ 001/01/01	2000000	
17.01.2010 22:36:10	Verbindungsbruch	WV Typ 001/01/01	2000000	
10.01.2010 22:36:10	Verbindungsbruch	WV Typ 001/01/01	2000000	
10.01.2010 22:36:10	Verbindungsbruch	WV Typ 001/01/01	2000000	

Solar-Log™ WEB

Release Note

April 2011

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1. Remote configuration

New:

All available input masks depend on Solar-Log™ type and firmware version. Only those fields or pages are shown, that are relevant to each Solar-Log™. The layout of the remote configuration was completely redesigned to get a better overview.

Up to now:

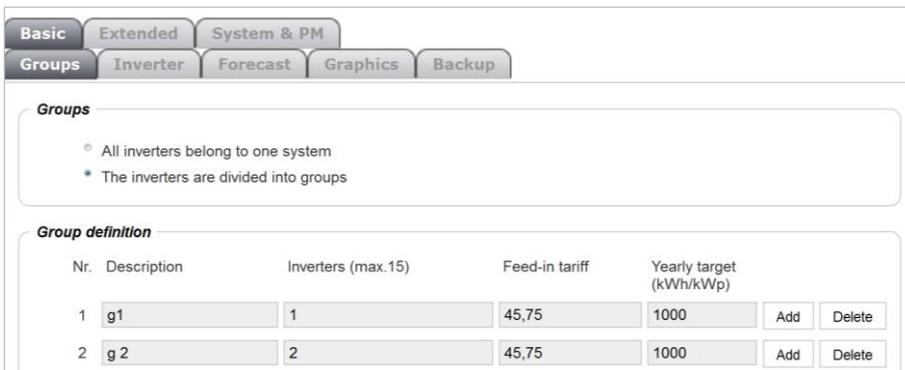


New:



1.1. Plant groups

New: Individual feed-in tariff and performance forecast can be entered per group.



Groups

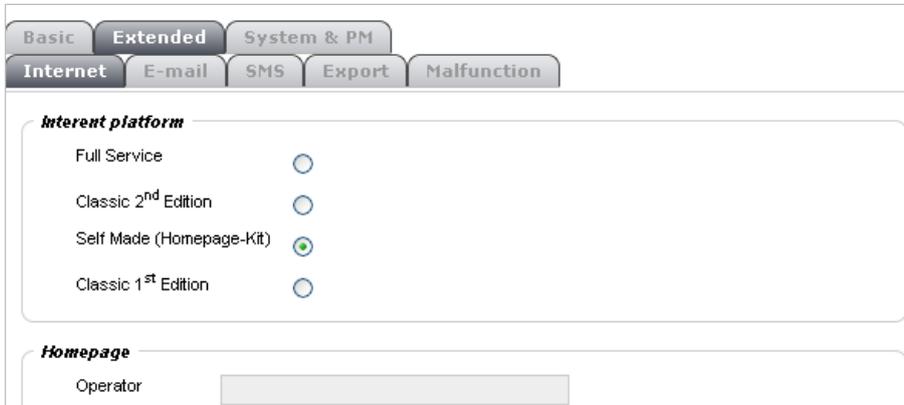
All inverters belong to one system
 The inverters are divided into groups

Group definition

Nr.	Description	Inverters (max. 15)	Feed-in tariff	Yearly target (kWh/kWp)		
1	<input type="text" value="g1"/>	<input type="text" value="1"/>	<input type="text" value="45,75"/>	<input type="text" value="1000"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>
2	<input type="text" value="g 2"/>	<input type="text" value="2"/>	<input type="text" value="45,75"/>	<input type="text" value="1000"/>	<input type="button" value="Add"/>	<input type="button" value="Delete"/>

1.2. Internet settings

New: The homepage input fields only appear, when Self Made or Classic 1 is selected. For Classic 2 or Full Service these fields are faded out.



The screenshot shows a web interface with a top navigation bar containing tabs: Basic, Extended, System & PM, Internet, E-mail, SMS, Export, and Malfunction. The 'Internet' tab is selected. Below the navigation bar, there are two main sections:

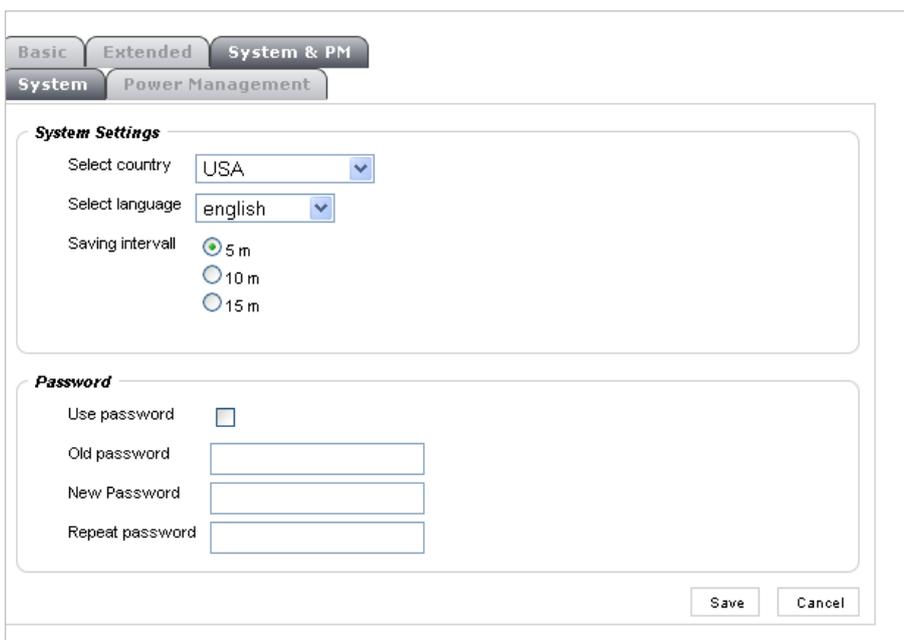
- Internet platform:** A list of radio buttons for selecting a platform:
 - Full Service
 - Classic 2nd Edition
 - Self Made (Homepage-Kit)
 - Classic 1st Edition
- Homepage:** A section with a label 'Operator' and an empty text input field.

(The respective data are entered for Classic 2 during the registration process or in the case of Full Service entered in the project data.)

1.3. System & Power management

New in the remote configuration:

- System settings (country, language, storage interval)
- Password settings for WEB interface
- Power management: monitoring and protocolling, inverter regulation, channel and performance settings (only for SL1000 PM/PM+)
- Reactive power regulation and Cos ϕ settings (only for SL 1000 PM+)



The screenshot shows a web interface with a top navigation bar containing tabs: Basic, Extended, System & PM, System, and Power Management. The 'System & PM' tab is selected, and the 'System' sub-tab is active. Below the navigation bar, there are two main sections:

- System Settings:** A section with three rows of settings:
 - Select country: USA (dropdown menu)
 - Select language: english (dropdown menu)
 - Saving intervall: 5 m (radio button, selected), 10 m (radio button), 15 m (radio button)
- Password:** A section with four rows of settings:
 - Use password:
 - Old password:
 - New Password:
 - Repeat password:

At the bottom right of the form, there are two buttons: 'Save' and 'Cancel'.

2. Easy Installation

New: By means of the Easy Install module in the backend menu you can integrate your Solar-Log™ simply and quickly into the Solar-Log™ WEB (Classic 2 and Commercial; it's not possible for Self Made and Classic 1).

It is only necessary to enter the serial number as well as the easy code (delivered together with your Solar-Log™).

The basic data is generated automatically therefore manual input is no longer required. The FTP access data is also generated automatically and sent to the Solar-Log™, which means that the data no longer has to be inserted in the device on site.

Easy Installation is recommended for home installations with up to five inverters (theoretically no limitations) and available router.

Solar-Log™ Easy Install

Assign new Solar-Log™

Serialnumber

Validation key

Solar-Log™ Replacement

Old Solar-Log™

New serialnumber

New validation key

Also send last configuration

3. Plant group graphics

New: The modified SolarLogWEB module allows to display up to ten Solar-Logs in one graphic. The view can be changed among the individual Solar-Logs (as in the case of changing between different inverters).



4. Sensor box

New: It is possible to display up to 9 sensor boxes in the SolarLogWEB graphics. In the graphic only one irradiation curve is shown (the curve is formed out of the selected module fields with their connected sensor boxes).

5. Performance Ratio

New: The new module PerformanceRatio (PR) shows the performance ratio of a plant or an inverter graphically or in a table.

The performance ratio value is a percental value, which shows the relationship between irradiation and yield.

The theoretically possible yield – depending on weather conditions – is compared to the true yield.

In this way it is possible to compare different inverters or plants.

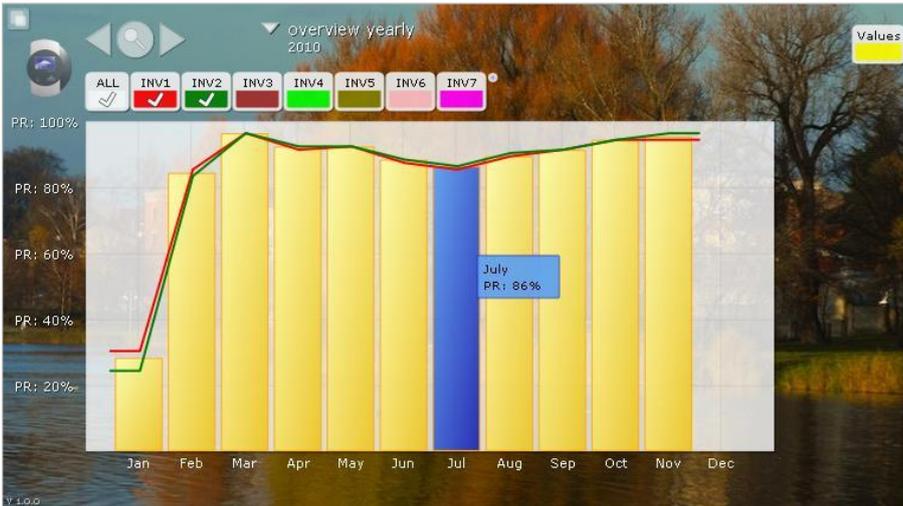
You can switch also between various views, like monthly, annually or total. Optionally the values can be displayed in a table format.

Value view:



Date	PR: 83%	PR: 80%	Change
09.08.10	PR: 83%	PR: 80%	+3 %
10.08.10	PR: 82%	PR: 83%	-1 %
11.08.10	PR: 85%	PR: 82%	+3 %
12.08.10	PR: 66%	PR: 85%	-19 %
13.08.10	PR: 79%	PR: 66%	+13 %
14.08.10	PR: 87%	PR: 79%	+8 %
15.08.10	PR: 74%	PR: 87%	-13 %
16.08.10	PR: 80%	PR: 74%	+6 %
17.08.10	PR: 74%	PR: 80%	-6 %
18.08.10	PR: 75%	PR: 74%	+1 %
19.08.10	PR: 88%	PR: 75%	+13 %
20.08.10	PR: 85%	PR: 88%	-3 %
21.08.10	PR: 85%	PR: 85%	- %
22.08.10	PR: 79%	PR: 85%	-6 %
23.08.10	PR: 77%	PR: 79%	-2 %
24.08.10	PR: 87%	PR: 77%	+10 %
25.08.10	PR: 85%	PR: 87%	-2 %
26.08.10	PR: 79%	PR: 85%	-6 %

Annual view (all inverters):



Monthly view (selected inverters):



The PerformanceRatio module only works when a sensor a box is connected and irradiation values are available.

6. DataVolumeBlock

New: For runtime optimization it is now possible to set up the caching lifetime in the DataVolumeBlock module. The values remain constant during the selected caching time and are not recalculated until this period is over. The loading time of this page is faster when it is loaded again.

cache lifetime: 1 hour

Save close

7. Basic data

New features in the basic data:

- **Moving** from Classic 2 to Commercial is now possible (as previously moving from Classic 1 to Commercial)
- **Correction** of daily data possible (The new input mask within the basic data allows to modify the daily yield of each inverter. The minute data and therefore the daily curves remain unchanged.)

Change day data:

ID	Typ	Yield Wh
"1"	"WR7K-014"	<input type="text" value="11111"/>
"2"	"WR7K-014"	<input type="text" value="12345"/>
"3"	"WR7K-014"	<input type="text" value="55555"/>
"4"	"WR7K-014"	<input type="text" value="222"/>
"5"	"WR7K-014"	<input type="text" value="44444"/>

8. Power management report

New: For those plants where power management is activated, a power management report is now available in the project data.

Power management		
Date	Active time (sec.)	Status %
16.04.10 11:09:53		100
27.04.10 15:58:22		100
11.10.10 10:39:13	41	0
11.10.10 10:39:55		100
15.11.10 14:43:45	63	0
15.11.10 14:44:49		100



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