



Now it's easy to keep track over your yields

Photovoltaic system monitoring with Solar-Log™



Your power yields can be seen at any time

Solar-Log™ – and you know that your solar energy system is most assuredly making money.

Your photovoltaic system must produce power reliably so that your investment pays off for you. You will only profit from the power you have actually produced. But do you know whether your system is truly providing maximum power? Do you check your meter regularly, even after many years? And what happens when you're on holiday?

With the automatic Solar-Log™ monitoring system, you now easily have the full overview of the whole system status, as well as over all the relevant data, especially your yield.

If you want, you can even use your iPhone to check your system at any time and from anywhere in the world.

"My inverter broke down after three years. I only noticed it because of the power supply company statement at the end of the year. As a result I had high yield losses.

Now I have a Solar-Log™ monitoring system and don't have to worry about this in the future."

(D. Burton from Sydney)

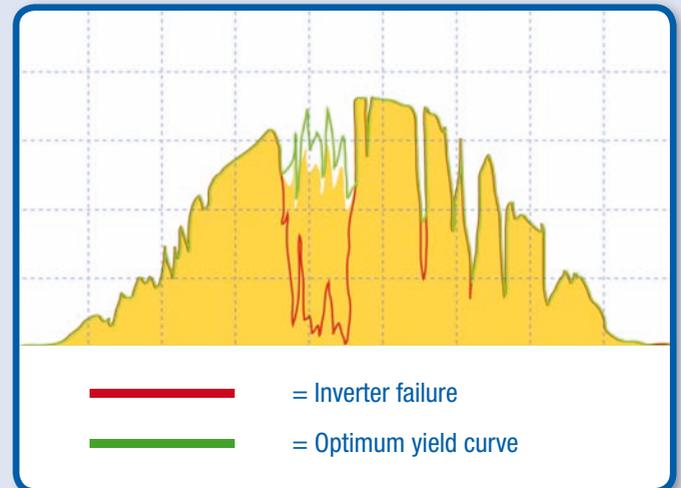


Securely detect breakdowns and drops in power.

Solar energy system breakdowns and drops in power are often not noticed at all or only after several weeks. Particularly painful is the loss in yield at times when the sun is shining brightly. These losses in power cannot be detected at all, or only with difficulty, even if you look at the meter every day and check the yield manually, which takes a lot of time.

These caused by:

- 1. Failure of individual modules**
e.g. lightning, broken cables, broken glass, hail, glass opaqueness
- 2. Cable damage**
e.g. by animal bites, corrosion
- 3. Inverter failure**
e.g. power surges, lightning or a breakdown of the electronics
- 4. Drops in power resulting from debris on individual modules** – e.g. soot, pollen, bird excrement.



Security and benefits that pay off

Solar-Log™ monitors power production for you on a permanent bases and fully automatically.

- 1. Immediate notification**
You are informed of breakdowns or a drop in power in the system within a few minutes by e-mail or SMS/text message.
- 2. Easy to operate**
Depending on the model either using the display or the web browser in the network.
- 3. No software installation necessary.**
The Solar-Log™ is accessed from a PC via the web browser and IP address.
- 4. iPhone APP**
To monitor the system from anywhere in the world.
- 5. Low cost – high security**
In this way, the Solar-Log™ pays for itself in a very short time.
- 6. Existing systems**
Solar-Log™ can easily be integrated into existing PV systems.
- 7. Compatibility**
Solar-Log™ is compatible with most all common inverters, currently more than 60.
- 8. Full Service and support**
via installer or maintenance provider



Solar-Log™ gives you user-friendly analysis of your solar yield graphically and in table formats, daily, weekly, monthly or yearly. Thus, you can always see whether the investment renders the forecasted yield. Depending on the model, the Solar-Log™ provides you with information on the display, on the PC, via the Internet (Solar-Log™ WEB) or via a smart phone – with many analysis options. Solar-Log™ can even monitor and optimise your own power consumption.

Solar-Log™ – always maximum yields

Reliable monitoring for your size of system

Solar-Log™ is the non-proprietary monitoring system for photovoltaic systems, “Made in Germany” by the market leader – **Solare Datensysteme GmbH**. Solar-Log™ can be connected directly to your inverter to constantly monitor its operation. It works with most inverters or inverter manufacturers available on the market. Your Solar-Log™ can be integrated into your LAN or via GPRS into the internet to visualize the plant yield and data on a website. The data and possible faults can easily be evaluated and detected directly via the WEB interface in the Solar-Log™ using a PC. In the event of faults, you are automatically informed by the Solar-Log™ alarm function.



Your installer
will be pleased to advise you on a suitable monitoring device.



The right model for each PV Plant

Solar-Log²⁰⁰



- Monitors small systems, with 1 inverter and optional Powermanagement with $\cos \varphi$ control
- Recommendation PV plant size up to 15 kWp
- Comprehensive yield analysis in graphical and table format via the PC
- Monitoring your own power consumption and maximizing your yields
- Same diversity of data as the high end units including notification via text message or e-mail
- Optional wireless connection with Bluetooth and WiFi



Optional



Solar-Log⁵⁰⁰



- Monitors small to medium large systems with up to 10 inverters and optional Powermanagement with $\cos \varphi$ control
- Recommendation PV plant size up to 50 kWp
- Two-line display for configuration and a numerical yield indicator on the unit
- Comprehensive yield analysis in graphical and table format via the PC
- Monitoring your own power consumption
- Optional wireless connection with Bluetooth and WiFi



Optional



Solar-Log¹⁰⁰⁰



- Monitors small to large systems with up to 100 inverters and optional Powermanagement with $\cos \varphi$ control
- Recommendation PV plant size up to 1 MWp
- Easy to use with touch screen to configure the graphic yield analysis on the unit
- Comprehensive yield analysis in graphical and table format via the PC
- Monitoring your own power consumption; maximizing your yields
- Many additional connections, for example, for an alarm system
- Optional wireless connection with GPRS, Bluetooth and WiFi



Optional



Number of Inverters



Touch screen



Wireless Internet connection



Bluetooth



Powermanagement

Solar-Log™ WEB – Analysis and monitoring via the Internet

With our Solar-Log™ WEB platform, a Full service for monitoring and analysis is available:



Full Service

Maintenance and monitoring by specialists

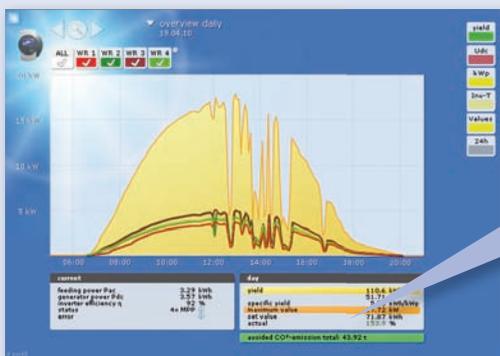
Your all-inclusive, care-free package.

Take out a monitoring or maintenance contract with your installer and you won't have to worry about anything else. Your installer receives the error messages directly. He can therefore react promptly and also access your system remotely to make configuration changes in the Solar-Log™, if necessary.

It couldn't be more convenient. The installer takes care of maintenance and repair. You too have access to all system data and can see the yield analysis on the internet at all times.

You have the overview with Solar-Log™ WEB

The perfect overview for the installer and for the plant owner



Daily overview with 4 inverters and shading

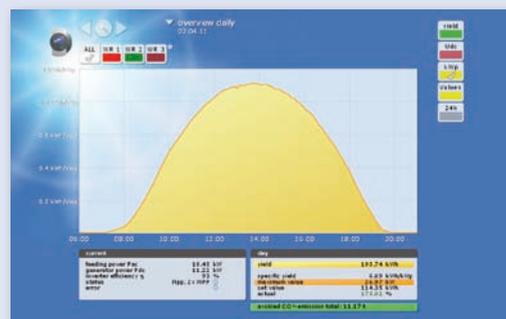
current	
feeding power P _{dc}	3.29 kWh
generator power P _{dc}	3.57 kWh
inverter efficiency η	92 %
status	4x MPP
error	

day	
yield	110.6 kWh
specific yield	51.71 €
specific yield	5.53 kWh/kWp
maximum value	17.72 kWh
set value	71.67 kWh
actual	153.9 %

avoided CO₂-emission total: 43.92 t



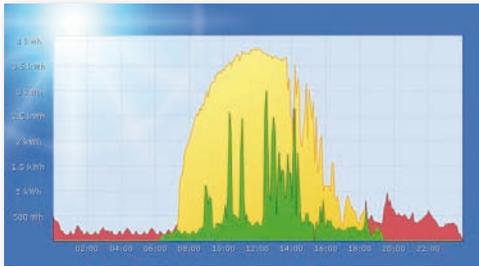
Inverter power restriction resulting from overheating or incorrect configuration



The perfect yield curve

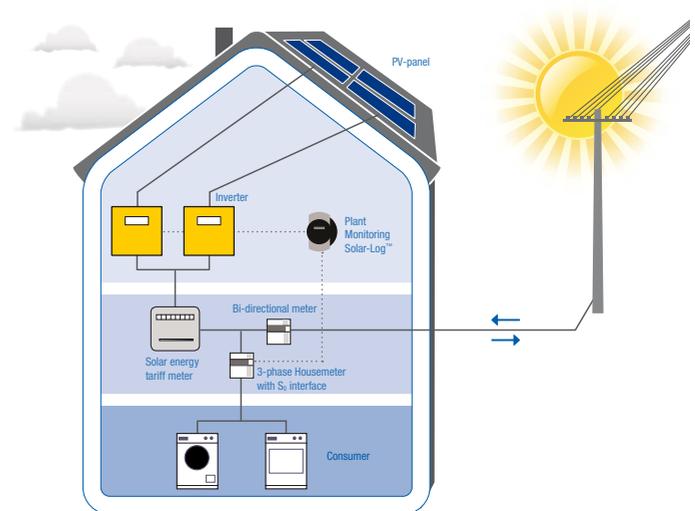
Monitor and optimise your own power consumption and save twice over

Just consume your self-produced power and thus increase your returns: Solar-Log™ is able to optimise use of self-produced and consumed power. The great advantage lies in the combination of the power NOT sourced externally and the resultant reduction in power costs. Surplus power can be directed into the mains supply for remuneration (depending on feed-in tariffs and/or other regulations in respective States). Solar-Log¹⁰⁰⁰ even offers the capability of using self-produced power at precisely the times at which sufficient electricity is being generated – by engaging up to four consumers (e.g. air conditioning or pool pumps) and shutting them down when necessary.



- = Volume of purchased electricity
- = Self-produced power consumption
- = Power production

Highest power consumption within production time, 69% of self-produced consumption rate at peaks.



High-quality accessories for added functionality



Solar-Log™ APP – for iPhone, iPod touch and iPad

Use the free Solar-Log™ APP to check your system any time and from anywhere in the world. Look at a daily, weekly, monthly or annual view of your yields.



Sensor-Box for even more effective monitoring

The Sensor-Box records solar radiation with an integrated module temperature sensor. The Solar-Log™ analyzes the actual supply power, calculates the deviations from the reference value for the potential yield from the Sensor-Box and warns of power losses and faults. If your PV system has various alignments, several Sensor-Boxes can be connected.

Assurance from the market leader – Maintenance and monitoring by specialists

Solar-Log™ is the leading solution for solar monitoring with worldwide service for operators and installers. **Trust in the expertise of a market leader with more than 160,000 monitored systems worldwide!** Our monitoring solutions will help you to produce the maximum power from your photovoltaic system. We manufacture everything in Germany and work together with many experienced partners. Contact your installer who can regularly maintain your system for you. He is your competent contact person for all Solar-Log™ products and will be pleased to advise you.

Maximise your solar yields with Solar-Log™

www.solar-log.asia



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Your specialist company:

Made in Germany.

No liability will be assumed for the accuracy of the information. Subject to change without notice.