

Make Your Energy Work More Efficiently for You

Monitoring and Managing
Solar Power with Solar-Log™



Smart Energy with Solar-Log™

Clever control of self-produced power consumption

Higher returns thanks to reduced electricity cost. Yes, a photovoltaic plant is worthwhile, despite falling feed-in tariffs. The advantage lies in the use of self-produced power since every kilowatt hour consumed directly saves a kilowatt hour of electricity being purchased from the grid. Saving hard cash, in particular with regard to rising energy costs. The surplus power can still be fed into the public grid and will receive a guaranteed feed-in remuneration.

Solar-Log™ - The intelligent Energy Management System

Solar-Log™ and EGO Smart Meter - intelligent heating with PV power



Surplus PV power is used to heat water that is stored in combination storage tanks. This made-in-Germany system offers an enormous savings potential, especially in the summer and in transitional periods.

Effective use of heat pumps for energy storage

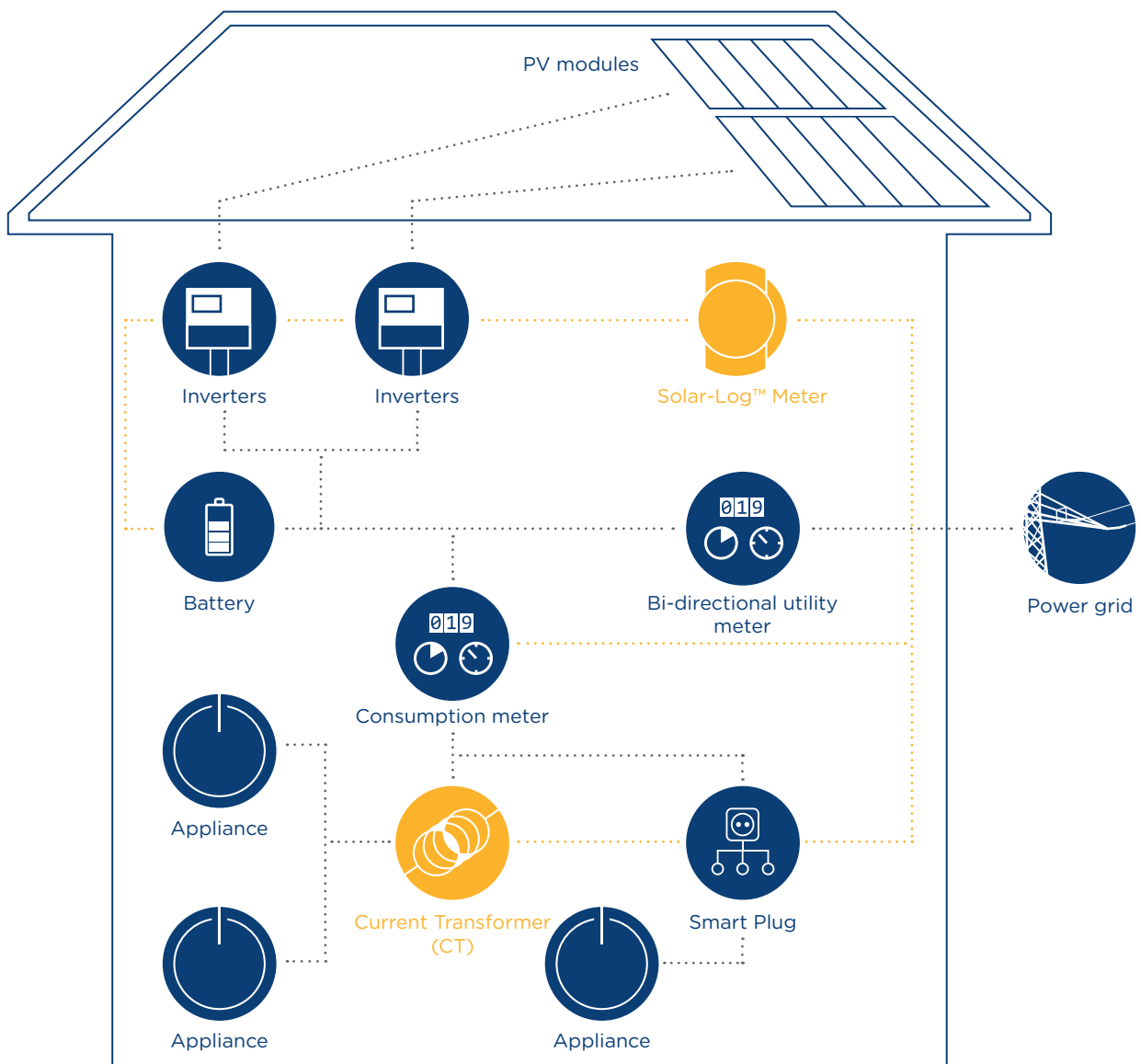
Solar-Log™ controls the heat pump and provides it with surplus PV power. A heating system can be used as a buffer storage when using a heat pump.

Battery Storage - Monitoring

Solar-Log™ visualizes the battery's charging capacity and status.

Optimizing the consumption of self-produced power

The Solar-Log™ models offer concise visualization of power consumption and the option to control, for example, Smart Heaters, heat pumps and cooling systems. No additional power meters are required to calculate the surplus from the PV plant production and the consumption within the building. The Solar-Log™ Meter is a data logger and power meter all rolled into a single device. Only a current transformer (CT) is required as an alternative to a 3-phase consumption meter.



Please refer to your local regulations to see if using measuring transducers to record the total consumption for regulated grid feed is allowed.

Detect power outages quickly

Power outages, deterioration and defects at solar plants that are not monitored are often either never noticed or not noticed for several weeks which can reduce the plant performance significantly. Daily reading of power meters makes it difficult to detect generated power losses. The Solar-Log™ monitoring system, however, immediately alerts you of any malfunction, by e-mail or text message around-the-clock.

Not knowing is no way to manage your solar power. A service agreement with your installer and portal operator is the best protection.

Reasons for system failures:

Individual solar panel failure

from a lightning strike, cable break, broken glass, hail or cloudy glass

Power loss due to dirt and grime

such as from soot, pollen or bird droppings

Cable damage

from rodents or corrosion

Power outages due to inverter failure

caused by overvoltage, lightning strikes or electronic failure



Daily overview with three inverters; hailstorm between 3 and 5 p.m.

Solar-Log™ Highlights

Just the right Solar-Log™ system for optimum monitoring, no matter how large your plant or what conditions are present on site, Solar-Log™ monitoring systems can be customized to your needs. All Solar-Log™ devices are available with several different options and features for plant capacities up to 15 kWp, 100 kWp or 2000 kWp. They are equipped with numerous features and options such as Touchscreen Display, Power Management and mobile modems.



Product comparison	Solar-Log 250	Solar-Log 300	Solar-Log 1200	Solar-Log 2000
Plant size	for small PV plants up to 10 kWp	for small PV plants up to 15 kWp	for mid-size PV plants up to 100 kWp	for large plants up to 2000 kWp
LCD Status Display	●	●	●	●
Display and operate using the Color TFT-Touch-Display	-	-	●	●
Visualize and optimize self-consumption	-	●	●	●
Optional Power Management	-	●	●	●
Reduction to X percent with adjustable fixed reduction	●	●	●	●
Reduction to X percent with and without the calculation of self-consumption	-	●	●	●

Keeping a close watch on your system: Solar-Log™ WEB

This "Full-Service" maintenance concept offers you certainty, optimal plant maintenance and easy online access to all of your yield and plant data. You can trust the quality of the market leader.

The "All-inclusive Package" from a professional

The Solar-Log™ WEB online platform is part of the service contract with your installer and portal operator and is the central control element for monitoring, maintaining and servicing your PV plant. This offers you the most convenience and ensures the highest degree of protection since your professional monitoring specialist quickly and efficiently handles all of the data and status messages. You don't have to worry about anything.



Solar-Log™ WEB – The data sheet provides an overview of the most important plant data such as standard performance and inverter information.

The Solar-Log™ Dashboard

The Dashboard works in combination with the Solar-Log™ WEB “Commercial Edition” to access all of your PV system information, including yields, CO₂ savings and performance. The Dashboard can be configured with different modules to personal preference: current output, yield history, financial yields, weather data and environmental contribution.



Solar-Log™ Dashboard shows your PV system performance at a glance.

The Solar Log™ APP and Insight app available at any time

Plant monitoring can also be easily displayed on mobile devices. The Solar Log™ APP displays up-to-the-minute real-time and historical data on your mobile device as a daily, monthly, annual or total overview. The Dashboard is available for the iPhone or iPad with the new Solar-Log™ Insight app, providing around the clock access to your data. The Solar-Log™ Insight app provides a connection to the Apple Watch.



10 Reasons for investing in a Solar-Log™ monitoring system

- 1 Maximize your revenue goals; Solar-Log™ sends immediate notification by e-mail or text message in case of any malfunction or reduced performance.
- 2 Gain independence over rising energy costs by using the self-consumption performance feature.
- 3 Easy-to-use display directly on the device as well as online access for remote operation.
- 4 Network integration is easy and does not require software installation.
- 5 The best price/performance ratio for top-notch monitoring.
- 6 The Solar-Log™ monitoring system provides protection on your ROI and offers the bank security it needs.
- 7 Increased property values due to having a PV plant installed with self-consumption power management.
- 8 Convenience and certainty when used with a service contract from a monitoring specialist who will take care of things.
- 9 Demonstrates your active concern for environmental protection.
- 10 Solar-Log™ devices are made in Germany, to the highest quality standards, by the world's market leader.



Subject to change without notice.

Solare Datensysteme GmbH

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