Solar-Log™

Optional Powermanagement
and cos phi control

Maximum plant size 2000 kWp

Color TFT-Touch-Display and LCD-
Status-Display for displaying gra-
phics and operation

Monitor central inverters and SCBs

Solar-Log 2000

Solar-Log™
www.solar-log.com
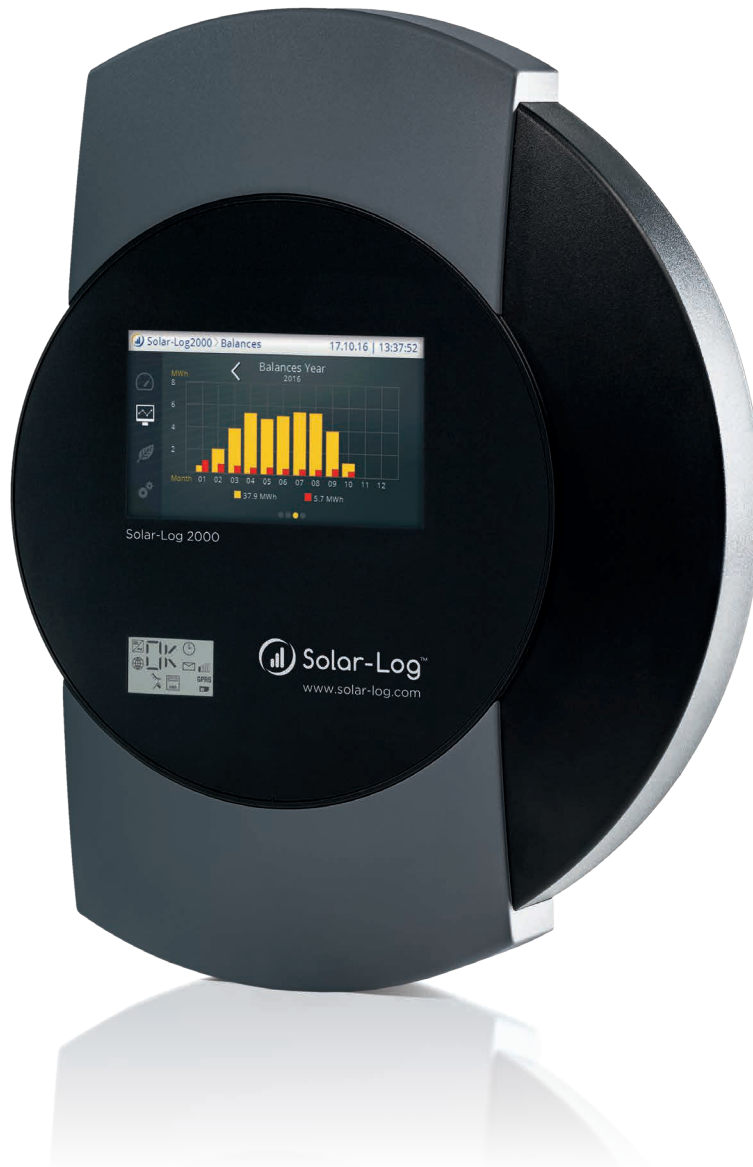
Options	Standard	PM+	GPRS	PM+/GPRS	Meter
	●	●	●	●	-
Article number	255592	255594	255593	255595	-

Solar-Log 2000

For solar power stations and large-scale PV plants

Functions

Self-consumption

The Solar-Log 2000 offers the option to measure the amount of self-produced power consumed and to present it graphically via the Solar-Log WEB Enerest™. An additional power meter serves as a consumption meter.

Solar-Log 2000 alarm function

This provides your plant with anti-theft protection and an external alarm against burglars and vandals.

Display Options

TFT-Touch-Display and access to Solar-Log™

The Solar-Log™ can be operated from a computer with a web browser or directly via the device's TFT-Touch-Display. The graphical reports of yield data are visualized on the color TFT-Touch-Display and via the web browser. Remote access is possible with the Solar-Log WEB Enerest™ XL.

Connections

Inverters

Number of inverters / devices just one manufacturer per bus, total maximum 100 inverter / devices, maximum plant size 2000 kWp.

Interfaces

The interfaces can be used to connect inverters (up to two different manufacturers) and accessories such as Utility Meter, Pyranometer and SCBs. The Solar-Log 2000 Standard and Solar-Log 2000 PM+ have two RS485/RS422 interfaces and one RS485 interface. The Solar-Log 2000 GPRS and Solar-Log 2000 PM+/GPRS have one RS485/RS422 and one RS485 interface.

Options

Solar-Log 2000 PM+ & Solar-Log™ Utility Meter

Combining the Solar-Log 2000 and Utility Meter simplifies implementation of the diverse requirements for powermanagement in Germany. The voltage-dependent reactive power control, Q(U) function, is accomplished by measuring the medium voltage with the Utility Meter. The combination of the Solar-Log 2000 and Utility Meter is also needed to send a confirmation of the current amount of feed-in power to the grid operator.

Solar-Log 2000 & PM-Package

For plants larger than 100 kWp, remote control of the reactive power supply and power limitations are required along with a confirmation of the current amount of feed-in power.
In practice, each grid operator stipulates its own signalization variant in the technical connection requirements (TAB). To fulfill the requirements from a particular grid operator, Solare Datensysteme offers a grid company specific PM-Package. This package includes hardware that is adjusted to a company's remote control technology and profile file.

String Connection Box (SCB) or String Monitoring Box (SMB)

When used with the Solar-Log WEB Enerest™ XL and either the SCB or SMB, the Solar-Log 2000 monitors every single string, ensuring the most complete and secure monitoring for large-scale PV plants with exact error identification and localization.

Feed-in management - feed balance: The times when there was a grid feed and when electricity was purchased from the grid can be seen at a glance in this graph. Negative values indicate that electricity was purchased from the grid and positive values that there was grid feed.

Solar-Log 300, 1200 and 2000

Common features

Functions

Local monitoring

Local graphical reports via web browser.

LCD-Status-Display

Status display for installation and operations.

Smart Energy

Recording and presentation of self-consumption control and visualization of individual appliances for the optimization of self-consumption.

Feed-in management

Reduction of feed-in power with a dynamic allowance for self-consumption.

Display Options

Solar-Log WEB Enerest™

The Solar-Log WEB Enerest™ XL online portal expands the presentation and monitoring functions of the Solar-Log™ and offers comprehensive reporting options in the form of graphs and tables via the Internet.

The new app for - Solar-Log WEB Enerest™

With its completely revised operating concept and modern design, the new app offers many new interactive features and graphics. The app is available for free from the app store.

Solar-Log™ Dashboard

The Dashboard is a feature of the WEB Enerest L and XL that displays all important information for a plant such as yields, CO_2 savings and plant performance.

Solarfox® large and external display

A large external display used in combination with the Solar-Log™ can visually present live data from a PV plant. You can also add personalized advertisements. Large external displays can be connected via the RS485 or S_0 interface.

Connections

Inverters

The Solar-Log™ is compatible with inverters from all major manufacturers.

Sensors RS485

The sensors measure solar irradiation, temperature and wind speed. They can even be combined with some inverters on an RS485 bus.

Meter S_0-In or RS485

The meter can record your consumption data or serve as an inverter and measure the power from incompatible inverters. In addition, batteries can be visualized via meters.

RS485 or S_0-Out

Connect a large external display to gain an additional overview of the data.

Solar-Log™ USB connection and data export

A USB stick can be connected to manually install new firmwares with new functions or to transfer backups and other data.

Ripple Control Receiver

The signal to reduce active power is generally sent via a Ripple Control Receiver or remote control technology. Up to two Ripple Control Receivers can be connected to the Solar-Log™ PM+, one for power reduction and one for reactive power control.

Ethernet / Speedwire*

The Solar-Log™ models can be connected to compatible inverters with an Ethernet connection. SMA inverters can be connected directly to a regular network infrastructure with SMA's own Speedwire protocol. The SMA inverter only has to be connected to an Ethernet switch or router.

Additional Functions

Cable cover

With its attractive design the cable cover for the Solar-Log™ offers the best possible mechanical protection for interfaces and cables.

Data security

The data volume from the Solar-Log™ can record for up to 20 years. The micro SD card is used to protect against any loss of data in the event of a power failure.