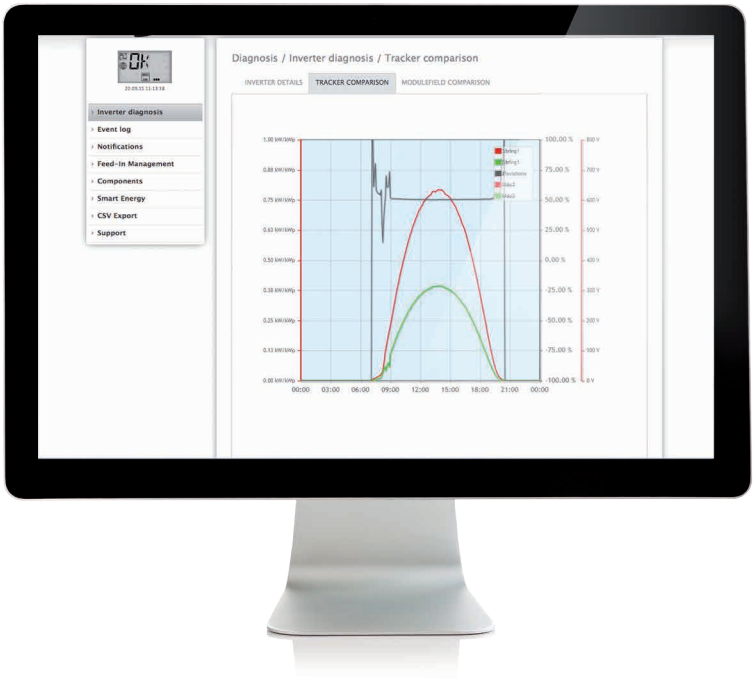
Comprehensive Solar-Log™ failure monitoring and power balancing

MPP Tracker Monitoring

To ensure that the solar power plant runs efficiently without downtime, the power ratings of individual inverters are compared against one another. Here, the Solar-Log™ examines the data in terms of kWh / kWp (specific power) of the inverters. This means that different sized inverters can still be compared against one another. On multi-string tracking inverters, the Solar-Log™ can detect deviations right down to string level. The Solar-Log™ transmits details of these deviations either by e-mail or by text message (SMS).



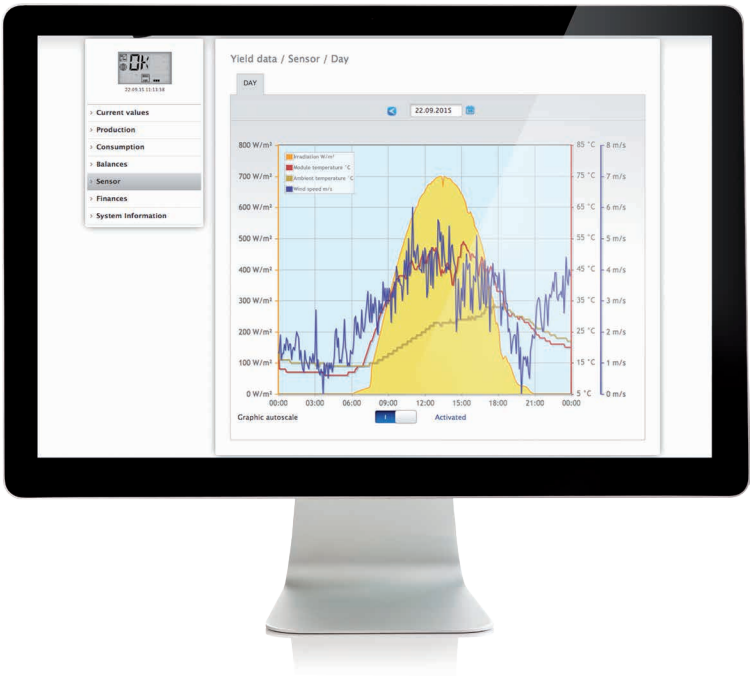
MPP Tracker comparison: The gray line depicts the degree of deviation. The percentage of deviation can be read from the columns on the right. The columns on the left show the tracker's kW/kWp output.

Inverter status

The Solar-Log™ continuously records the status and fault codes of the inverters; you always have peace of mind that all connected inverters are working properly. Fault codes from each manufacturer are saved in the Solar-Log™ as well as on the Internet. In the event of a mal-function they are transmitted by e-mail.

Sensors

The following values can be displayed: irradiance W/m², module temperature C°, ambient temperature C° and wind speed m/s. Weather and reference comparison data from the immediate surroundings are collected and converted according to the PV plant's orientation, pitch and location to allow for a direct comparison. This facilitates the detection of deviations from the potential output of the plant and its current production.



Diagnostic tool

The diagnostic tool "Inverter Details" displays the measured values from the individual inverters. The graphic view can be customized to provide a clear overview.