

SolarSense 750

Standalone PV-installation monitor

www.victronenergy.com



SolarSense 750 (top)



SolarSense 750 (left)



The SolarSense 750 is an innovative, fully self-sufficient wireless device designed to help optimise PV energy usage and monitor the health of your photovoltaic (PV) installation.

Maximise Your PV Power Potential

In off-grid or grid-limited systems, excess PV energy is often wasted when batteries are fully charged. Rather than letting this energy go unused, it can be redirected to power additional loads like water heaters or household appliances, reducing the need to draw from the batteries later. The SolarSense 750 provides precise real-time data on available solar power and enables users or automation systems to efficiently manage energy use and maximize the performance of their PV installations.

Optimise Panel Configuration

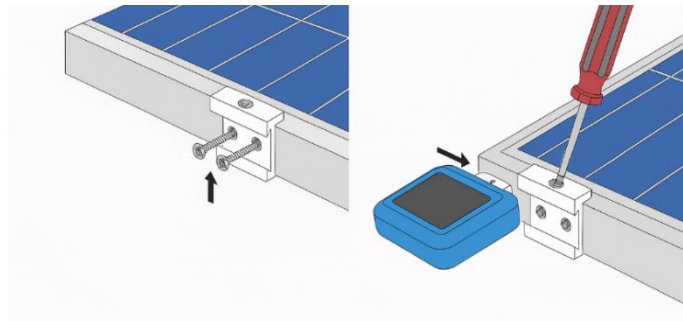
The SolarSense 750 can act as a pilot device, helping you measure solar yield and available power in different locations, panel orientations, and throughout changing seasons. This data is crucial for designing optimal configurations for future PV systems, ensuring you get the best performance from your setup.

Fully wireless and self-powered

Eliminate the need for complex wiring! The SolarSense 750 features an integrated solar panel for self-powering and uses Instant Readout wireless communication (via BLE advertisements). Installation is fast, easy, and cable-free, making it an ideal solution for remote or hard-to-reach locations.

| SolarSense 750 | SLS300175100 |
|------------------------------|---|
| Power supply | Self-powered |
| Internal battery | Rechargeable 40 mAh / 3,6 V |
| Operating temperature range | -40 to +85 °C |
| MEASUREMENT & RESOLUTION | |
| Irradiance | 0,1 W/m ² |
| Estimated solar power | 1 W |
| Daily yield | 1 Wh |
| Temperature | 0,1 °C |
| INSTALLATION AND DIMENSIONS | |
| Material & Colour | Black PPO / PPE, White PC |
| Mounting holes | 2x 6,5 mm ∅ |
| Protection category | IP65 |
| Weight | 200 g (including packaging) |
| Dimensions (h x w x d) | 110 x 78 x 32 mm |
| ACCESSORIES | |
| Mounting bracket | Black, with alignment ledge |
| Locking screw | 1x PZ1 M3 x 30 mm |
| Self-drilling mounting screw | 2x PZ2 4,2 x 22 mm |
| STORED TRENDS | |
| Data stored | Irradiance, Estimated power, Temperature |
| Storage duration | 31 days |
| STORED HISTORY | |
| Data stored | Max daily irradiance, Min/Max daily estimated solar power, Min/Max daily temperature, Daily estimated yield |
| Storage duration | 730 days |
| STANDARDS | |
| Emission, Immunity | EN-IEC 62052-11 |

Installation

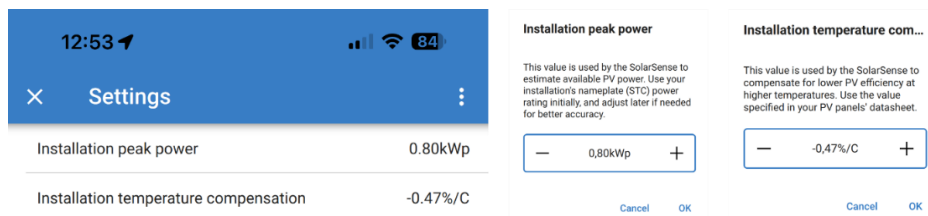


1. Separate the sensor from the bracket.
2. Position the bracket against the side of the solar panel frame. Ensure the top lip rests on the upper edge of the frame for correct alignment.
3. Mark the centre points of the slots and predrill the holes, or directly fasten the bracket using the two self-drilling screws.
4. Slide the sensor horizontally into the bracket until it is fully seated.
5. Tighten the locking screw on top to secure the sensor in place.

Configuration

To monitor a PV installation, the SolarSense 750 must be configured with relevant installation parameters using VictronConnect.

1. Open VictronConnect.
2. Locate the SolarSense 750 in the device list and tap to open it.
3. Tap the cogwheel icon to access the Settings page.
4. Set the Installation peak power according to your system's rated output under Standard Test Conditions (STC).
5. Set the Installation temperature compensation according to your system's temperature derating specification.



Monitoring via VictronConnect

- The Status page shows the expected solar output, current solar irradiation, today's solar yield, and the sensor's cell temperature.
- The History page provides access to historical performance data.
- The Trends page displays solar irradiation and temperature over time as live graphs.

Monitoring via GX device

- On the Remote Console, go to Settings > Integrations > Bluetooth Sensors and enable the SolarSense 750.
- The sensor will show up in the Devices menu from where you can read out irradiance, cell temperature, installation power, today's yield and the sensor battery voltage.

