

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.

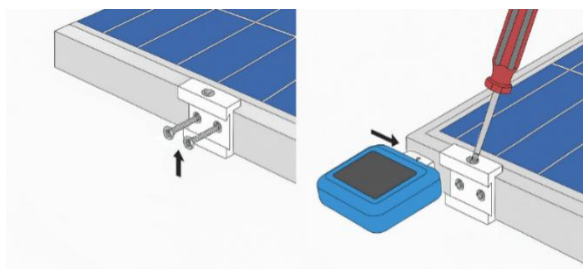
Fully wireless and self-powered

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.

Note: Bluetooth communication range depends on installation conditions. Metal structures, such as panel frames or roofs, can significantly reduce BLE range, even when only thin metal is present.

SolarSense 750	
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 ø
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

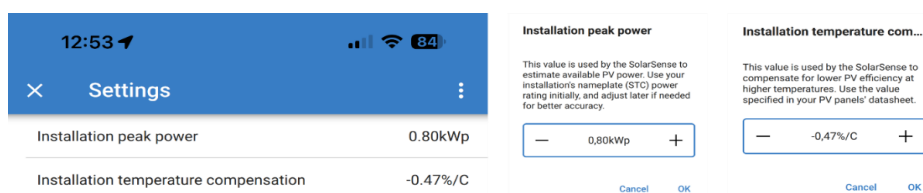


1. Separate the sensor from the bracket.
2. Position the bracket against the side of the solar panel frame. Ensure the top lip rests on the upper edge of the frame for correct alignment.
3. Mark the centre points of the slots and predrill the holes, or directly fasten the bracket using the two self-drilling 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 irradiance, today's solar yield, and the sensor's cell temperature.
- The History page provides access to historical performance data.
- The Trends page displays solar irradiance 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.

