



## LoriSense Basic Single Axis Solar Tracker



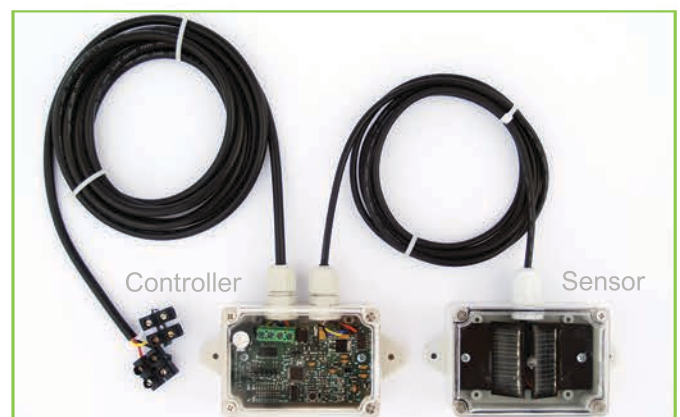
### Improving Energy Efficiency

The **LoriSense Basic** single axis solar tracking system is an excellent solution to improve the efficiency of solar panels. As the sun moves across the sky, an electric actuator system makes sure that the solar panels follow the sun so that they are always directly facing it, thus increasing the energy conversion substantially.

This system lets your solar panel follow the sun by controlling an actuator attached to it. The system includes both a sensor and a control circuit, each within an IP65 grade (waterproof) enclosure. The sensor should be placed near the solar panel facing up and it allows the controller to "know" where the sun is and how to adjust the actuator in order to align the solar panel with the sun.

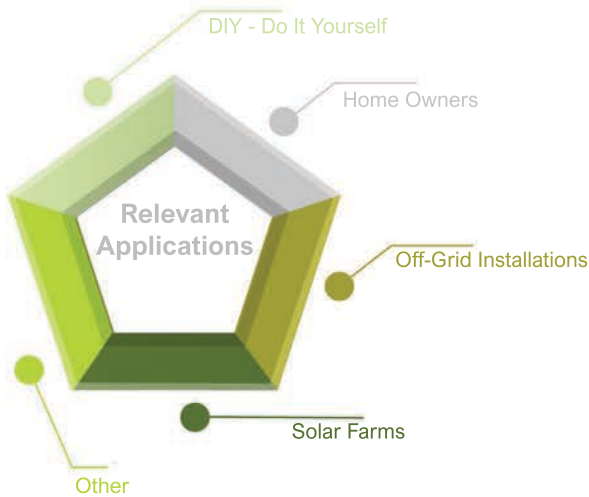


Another very important aspect to emphasize is that thanks to solar tracking not only the production of energy increases, but also improves the way the power output is delivered. With solar tracking you can extend the time of available maximum power and thus produce with greater capacity more hours a day.





# LoriSense



## Robustness

Any voltage between 12V and 24V may be supplied to the system.

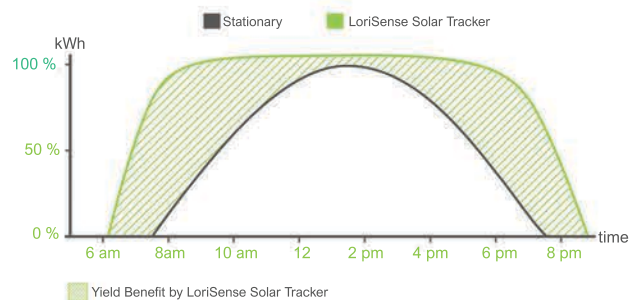
The system may be connected to the customers' own actuators with no worry, giving them more flexibility with their final application.

## Reliability

The controller has an integrated protecting mechanism against voltage and current spikes that may originate from the actuator and from switching the current on and off.

## Return on Investment

- ✓ The main benefit of solar tracking solutions is accurate positioning of solar panels which improve energy generation substantially and, thus, improve return on investment (ROI)
- ✓ With the LoriSense Basic Solar Tracker, the energy conversion efficiency of your solar panels may be increased up to 30% on average depending on geographic location.
- ✓ Solar trackers generate more electricity in roughly the same amount of space needed for stationary systems, making them ideal for optimizing land usage.



Internal protection against ESD, external spikes and noise that originate from the power voltage line that powers the controller.

Automatic regulation of the delivery of the current to the actuator at timely bursts of current to prevent overheating and destruction of the controller.

