

# SoSy S\_380

the new **single axis tracker**



## UNLOCK THE FULL POTENTIAL OF YOUR UTILITY SCALE PV POWER PLANT

### Ready for the next level?

After twenty years of tracker development and commercial PV application in US, Canada, Europe, ME, Africa and Australia, **Kirchner Solar International** brings you in the next level of tracking technology, the new **SoSy S\_380**. This system marks the next logical extension of our worldwide proven German tracker technology and the top choice for utility scale PV systems with almost 80 kWp or 192 Modules (72 cells) per tracker.

The **SoSy S\_380** has been designed by **KSI** to optimize the installation process, maximize tolerances and allowing a safe use in rough terrain.

The **SoSy 1\_380** single axis tracking system will produce the energy when the utilities need it most.

High flexibility, easy installation, best CAPEX and leading LCOE.

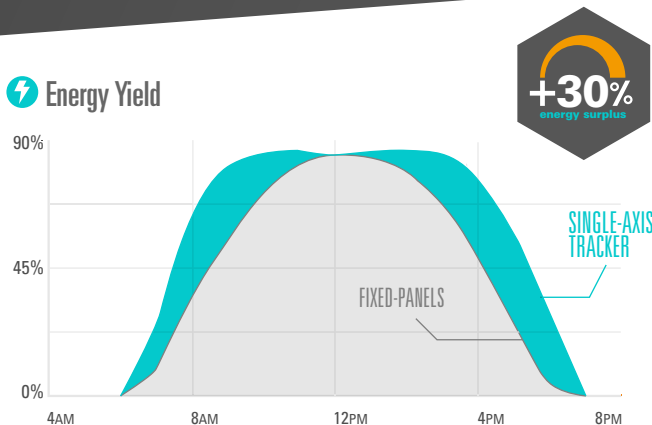
Using high-quality drive components with proven track records in the tracker and heavy equipment industry, each component is used worldwide to move megawatts of solar modules. Our competitive tracking system requires significant less man-hours to be installed, this making the **SoSy S\_380** system a definite cost optimizer:

- less installation costs by less man-hours required
- low equipment costs compared to other tracking systems currently available on the market.

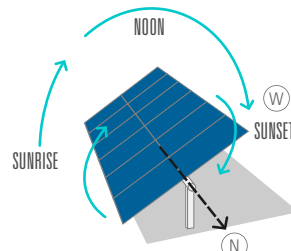


## Astronomical Control

Our astronomical control unit **SolTrk** was developed in Germany in 1999 and since then is acknowledged for its strength and efficiency. The motor torque control functionality reduces the mechanical stress for the tracker components and guarantees the highest safety and long-term reliability of the structure.



## Daily Tracking



## Night Flip

OPTIONAL



## Technical Specifications

DC Power per tracker **80 kWp** ( e.g. 2 arrays x 96 modules x 415 W 72 cells module )

### TRACKING

Tracking method	<b>Single-Axis, horizontal</b> (N-S installation)
Tracking range	<b>+/- 90°, adjustable</b>
Backtracking	<b>configurable to terrain</b>
Tracking accuracy	<b>0.25°</b>
Night-Position	<b>configurable -180° to +90°</b>

### DIMENSIONS (PER ARRAY)

Length	<b>54 meter / 178 ft</b>
Width	<b>4 meter / 13 ft</b>
Height	<b>2.2 meter / 7 ft 3" (standard at 0°)</b>

### CONFIGURATIONS

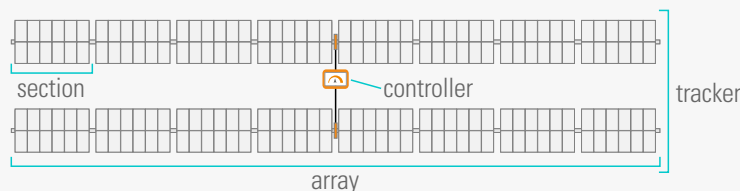
Panels per tracker	<b>up to 192 units max. 72 cell type</b> (in 2 arrays)
Panel layout	<b>2 portrait</b> (8 sections per 12 modules per 2 arrays)
String voltage	<b>up to 1500 V DC</b>
Tracker unit	<b>2 arrays with 1 controller</b>
Drive type	<b>slewing drive with DC motor</b>
Tracker per MWp	<b>approx. 15</b>

### INSTALLATION TOLERANCES

North-South slope	<b>6°</b>
Pole height	<b>+/- 25 mm / 1"</b>
Pole plumb	<b>+/- 1°</b>
Pole twist	<b>+/- 2°</b>

### ADDITIONAL FEATURES

Monitoring	<b>real-time documentation</b>
Over current protection	<b>yes</b>
Motor torque control	<b>yes</b>
Remote control	<b>yes</b>
Warranty	<b>up to 20 years</b> depending on O&M contract



## Kirchner Solar International

The german solar tracking pioneer **Kirchner Solar Group** is one of the leading manufacturers of innovative, cost-effective, reliable and robust solar tracking systems. Its **KSI** department supports the customers with leading solar tracking expertise.



Established: **1991**  
Employees worldwide: **100**  
Worldwide installed PV projects: **29.000**  
Tons of steel delivered: **> 50.000**