

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 380 m² (7% tolerance) to fit your modules.

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 S_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.



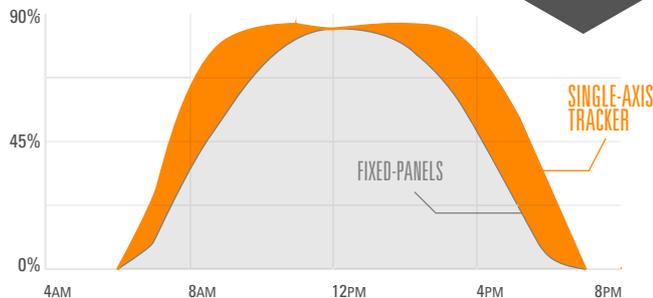
Astronomical Control

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.

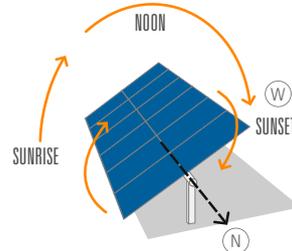
Tech Specs

SoSy **S_380**

Energy Yield



Daily Tracking



Night Flip

OPTIONAL



Technical Specifications

High DC Power per tracker (up to 35 kWp depending on panel size and form factor)

TRACKING

Tracking method	Single-Axis, horizontal (N-S installation)
Tracking range	+/- 90° (night flip) +/- 50°(standard)
Backtracking	configurable to terrain
Tracking accuracy	0.25°
Night-Position	configurable -180° to +90° (night-flip) -50° to +50° (standard)

DIMENSIONS (PER ARRAY)

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

CONFIGURATIONS

Panels per tracker	192 or 160 modules* (380 m ² + 7% tolerance)
Panel layout	2 landscape (8 sections per 12/10 modules per 2 arrays)*
String voltage	up to 1500 V DC
Tracker unit	2 arrays with 1 controller
Drive type	slewing drive with DC motor
Tracker per MWp	approx. 10

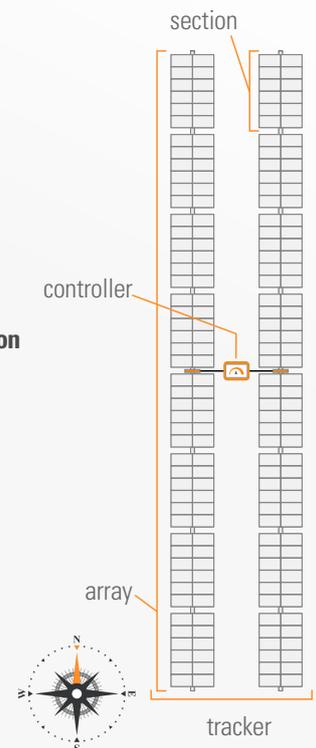
*depending on panel size and form factor

INSTALLATION TOLERANCES

North-South slope	6°
Pole height	+/- 25 mm / 1"
Pole plumb	+/- 1°
Pole twist	+/- 2°
Max offset N/S	30°

ADDITIONAL FEATURES

Monitoring	real-time documentation
Over current protection	yes
Motor torque control	yes
Remote control	yes
Warranty	up to 20 years



Sonnen Systems, a **Kirchner Solar Group** company

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**