

# SoSy D\_130

a new landmark in **dual axis tracker**



## THE NEXT LEVEL OF DUAL AXIS TRACKING SYSTEMS

After twenty years of tracker development and commercial PV application in US, Canada, Europe, ME, Africa and Australia, **Kirchner Solar International** has set a new milestone in the dual-axis tracker market.

**SoSy D\_130** is a technology landmark.

**KSI** designed the 5th generation of its main tracker system equipped with a flexible PV mounting surface of up to 131 sq. meters, this improving the overall yield of each investment, decreasing the required

foundation works substantially and making the handling of materials much easier during the construction phase.

All components used have been well tested for decades in the tracker industry. The safety management system SAFEGUARD complies to the same requirements as our previous model **SoSy D\_60**, probably the best and most reliable dual axis tracker on the market. **Until Now.**



## Astronomical Control

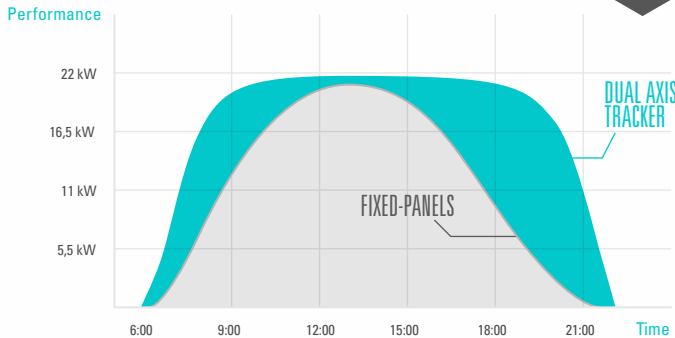
Our astronomical control unit **SolTrk** was developed in Germany in 1999 and since then is acknowledged for its strength and efficiency.

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.

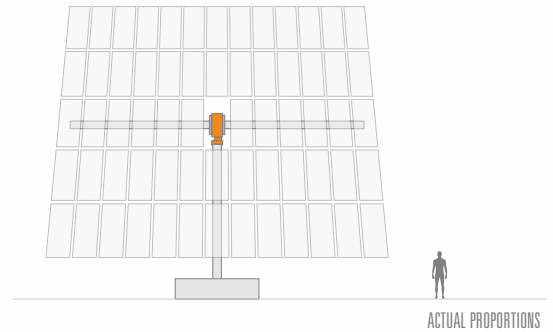
# Tech Specs

SoSy D\_130

## Energy Yield



## e.g. Allocation Modules



64 panels (72 cells type) **27 kWp**  
Single panel size (w x h) **1081 x 1993 mm / 42" x 78"**  
Total panel surface **131 m<sup>2</sup> / 1410 ft<sup>2</sup>**  
Total system size (without mast) **13.1 x 10 m / 43 x 33 ft**

## Technical Specifications

### DIMENSIONS

Size of panel surface	<b>131 m<sup>2</sup> / 1410 ft<sup>2</sup></b>
Size of supporting structure (without profile rails, width x height)	<b>10 m x 13 m / 33 ft x 43 ft 8"</b>
Maximum installation height (upper edge of panel surface above ground level)	<b>20 m / 65 ft</b>
Weight (without mast, profile rails and panels)	<b>approx. 2300 kg / 5070 lb</b>
Load approx.	<b>2500 kg / 5511 lb</b>

### COMPONENTS

Control unit	<b>astronomical with RS 485 interface</b>
Steel construction	<b>hot-dip galvanised according to DIN EN 1461</b>
Azimuth	<b>electromechanical slew drive 102 : 1</b>
Elevation	<b>electromechanical slew drive 102 : 1</b>

### SAFEGUARD

Wind alert system operates at wind speed	<b>≥ 13 m/s</b>
Type of protection	<b>IP 54 / 65</b>
Voltage monitor operates at	<b>≤ 48V / DC</b>
Uninterruptible power supply	<b>18 – 150 Ah "</b>

### PERFORMANCE

Capacity of PV generator (depending on panel type)	<b>20 – 28 kWp</b>
Operating voltage	<b>48 V / DC</b>
Nominal power	<b>max. 240 W</b>
Angular range	<b>320°, 90°</b>
Angular accuracy	<b>by 0.1° – 0.25°</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**