

SoSy D_60

the landmark of **dual axis tracker**



THE MOST RELIABLE DUAL AXIS TRACKER ON THE MARKET

Up to 20 years of experience for the most reliable tracking system. **D_60** is the historical product of **Kirchner Solar International** can count on over 20k systems installed all over the world.

The reliability and the whole knowledge in tracker development and commercial PV application in US, Canada, Europe, ME, Africa and Australia, ensures the overall yield of each investment.

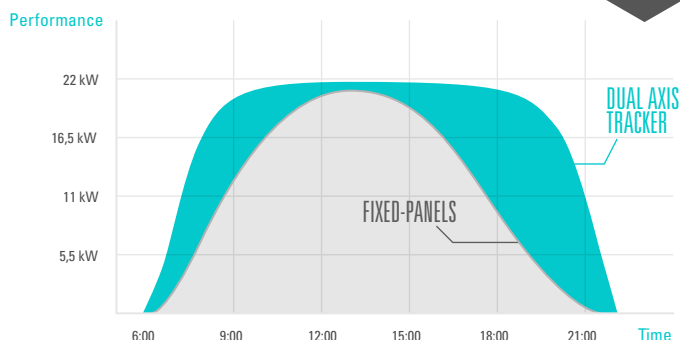
All components used have been well tested for decades in the tracker industry. The safety management system SAFEGUARD complies to the most severe requirements to ensure the safety of the mechanical construction and the investment.



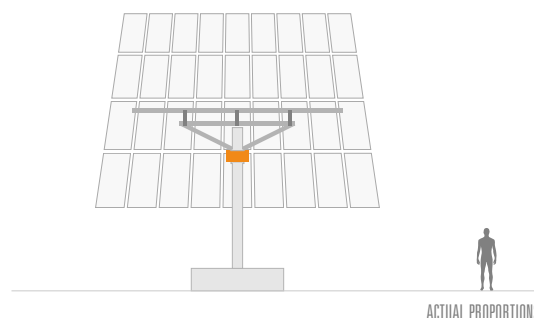
Astronomical Control

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

Energy Yield



e.g. Allocation Modules



36 panels (60 cells type) **11.2 kWp**
 Single panel size (w x h) **1046 x 1559 mm / 41" x 61"**
 Total panel surface **58.7 m² / 632 ft²**
 Total system size (without mast) **9.5 x 6.4 m / 31 x 21 ft**

Technical Specifications

DIMENSIONS

Size of panel surface **60 m² / 646 ft²**
 Size of supporting structure (without profile rails, width x height) **7 m x 6.4 m / 23 ft x 21 ft**
 Maximum installation height (upper edge of panel surface above ground level) **8 m / 26 ft**
 Weight (without mast, profile rails and panels) **approx. 670 kg / 1477 lb**
 Load approx. **1200 kg / 2650 lb**

COMPONENTS

Control unit **astronomical with RS 485 interface**
 Steel construction **hot-dip galvanised according to DIN EN 1461**
 Azimuth **electromechanical slew drive 102 : 1**
 Elevation **electromechanical lifting spindle 225:1**

SAFEGUARD

Wind alert system operates at wind speed **≥ 13 m/s**
 Type of protection **IP 54 / 65**
 Voltage monitor operates at **≤ 12/24V / DC**
 Uninterruptible power supply **18 – 100 Ah "**

PERFORMANCE

Capacity of PV generator (depending on panel type) **8 – 12 kWp**
 Operating voltage **24 V / DC**
 Nominal power **max. 110 W**
 Angular range **270°, 70°**
 Angular accuracy **by 0.1° – 0.25°**

ADDITIONAL FEATURES

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