

ETATRACK active 1000

Active Solar Tracking System

LORENTZ 
GERMANY

Characteristics

- total module surface $3.4\text{ m} \times 3.2\text{ m}$ (c. 10 m^2), up to c. 1.6 kWp
- maintenance-free
- high reliability and life-expectancy
- low power consumption (c. 1.25 kWh/year)
- no failure-prone light sensor
- no unnecessary tracking movements
- statics according to German and European standards
- cost-efficient tracking system

Application

Single-axis tracking system for solar modules¹.
Additional power output of up to 40 % in comparison to fixed module installation.

Design

Tracking Unit

- single-axis tracking system, angle of second axis manually adjustable $0\text{-}45^\circ$
- elevation East-West: 90°
- module surface $3.4\text{ m} \times 3.2\text{ m}$ (c. 10 m^2), c. 1.6 kWp
- frame: steel, hot-dip Zn-coated
- module fixation with stainless steel clips
- no failure-prone light sensor
- energy supply of tracking drive: 12 V (nominal voltage) to 80 V , provided by one of the tracked modules, tracking control by one of the tracked modules²
- low energy consumption c. 1.25 kWh/year
- stepwise tracking, depending on the daily sunshine duration (length of day)
- South position in darkness
- suitable for high wind speeds: statics according to German and European standards
- maintenance-free

Drive

- DC linear drive
- maintenance-free

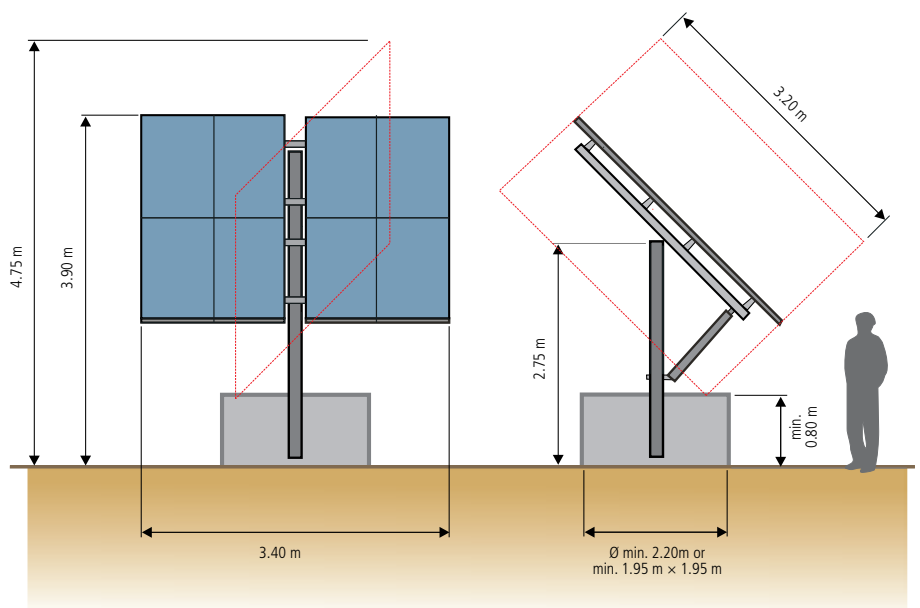
Foundation

- concrete foundation (min. 3 m^3)
- screw foundation
- ram foundation

Included in Delivery

- frame and fixation elements made of steel, Zn-coated
- stainless steel clips for module fixation
- electronics including battery in plastic housing
- linear drive
- mounting pole

- 1) for framed solar modules according to IEC 61215, UL 1703
- 2) For safe operation in specific system designs, an additional small module might be necessary. Cf. installation manual.



Example: system dimensions with 8 solar modules c. $1.6\text{ m} \times 0.8\text{ m}$