

# ETATRACK active 1000

Active Solar Tracking System

**LORENTZ**   
GERMANY

## Characteristics

- total module surface  $3.4\text{ m} \times 3.2\text{ m}$  (c.  $10\text{ m}^2$ ), up to c.  $1.6\text{ kWp}$
- maintenance-free
- high reliability and life-expectancy
- low power consumption (c.  $1.25\text{ kWh/year}$ )
- 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 modules<sup>1</sup>.  
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  $0-45^\circ$
- elevation East-West:  $90^\circ$
- module surface  $3.4\text{ m} \times 3.2\text{ m}$  (c.  $10\text{ m}^2$ ), c.  $1.6\text{ kWp}$
- frame: steel, hot-dip Zn-coated
- module fixation with stainless steel clips
- no failure-prone light sensor
- energy supply of tracking drive: 12V (nominal voltage) to 80V, provided by one of the tracked modules, tracking control by one of the tracked modules<sup>2</sup>
- low energy consumption c.  $1.25\text{ kWh/year}$
- 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

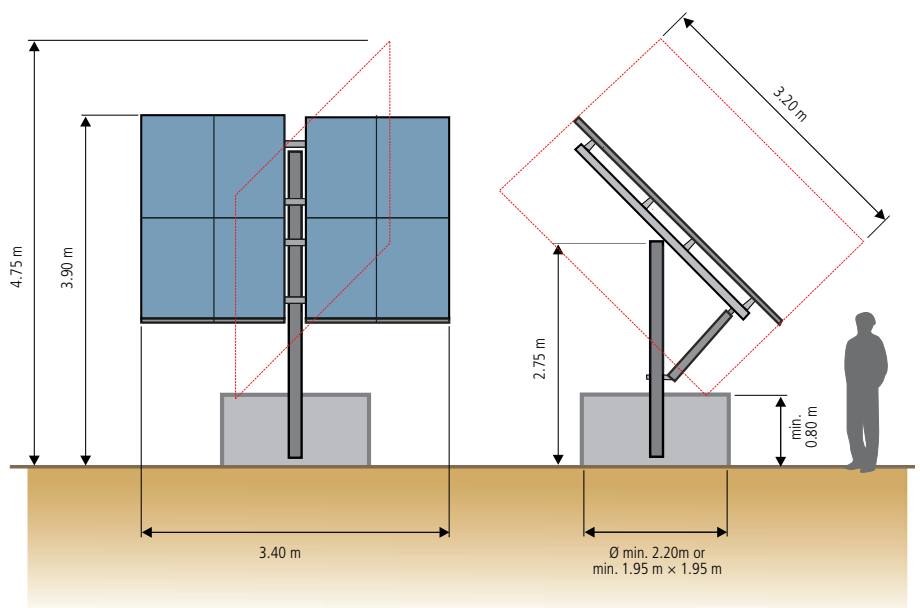
- concrete foundation (min.  $3\text{ m}^3$ )
- screw foundation
- ram foundation

### 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.  $1.6\text{ m} \times 0.8\text{ m}$