

ETATRACK active 2000

Single-axis Tracking System for PV Modules

Characteristics

- total module surface up to c. 20.5 m²
- no failure-prone light sensor
- no unnecessary tracking movements
- low power consumption (c. 1.5 kWh/year)
- statics according to German and European standards
- high reliability and life-expectancy
- maintenance-free
- cost-efficient tracking system



Application

- single-axis tracking system for PV modules¹
- additional energy yield of up to 40 % compared to fixed installations

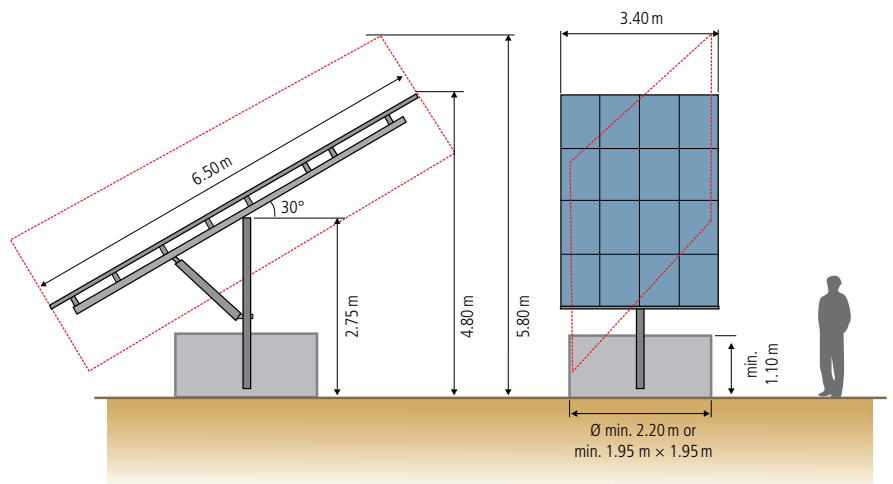
Design

Tracking Unit

- single-axis tracking system
- angle of second axis 30°, other angles on request
- elevation East-West: 90°
- module surface up to c. 20.5 m²
- frame: steel, hot-dip Zn-coated
- module fixation with stainless steel clips
- suitable for high wind speeds: statics according to German and European standards
- low energy consumption c. 1.5 kWh/year
- maintenance-free

Control

- energy supply to controller: 12V DC (nominal) to max. 50V_{oc} (open circuit), provided by one of the tracked modules²
- stepwise tracking, depending on the daily sunshine duration (length of day)
- South position in darkness
- no failure-prone light sensor



Example: system dimensions with 16 PV modules c. 1.6 m × 0.8 m

Drive

- DC linear drive
- maintenance-free

Foundation

- concrete foundation (min. 4 m³)

Included in Delivery

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

1) for framed PV 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.