



ESEEK-Steady

Advantages



Ultimate Safety

Protection Against Strong Winds

- All posts self-locking
- Axisymmetric damping
- Large-angle wind-facing protection reduces wind load torque coefficient, minimizing flutter and vortex vibration risks
- Certified by CPP wind tunnel testing



Optimal Cost

Efficient Installation for Time and Effort Savings

- Integrated casting for the bearing base
- Diameter shrinkage process for main beam connection
- Quick-install purlin system



Stable and Reliable

Stable Craftsmanship and Reliable Structure

- Diamond-shaped locking main beam
- Open bearing system
- Stable process
- Enhanced protection against fatigue damage in carriage bolt nodes
- Certified by CPP wind tunnel testing



Superior Efficiency

Smart Commissioning for Effortless and Worry-Free Operation

- Mobile app commissioning and tracking system
- Intelligent tracking algorithm
- Multiple power supply and communication guarantees

Introduction



ESEK-Steady is a new-generation tracker designed with the concept of **safer docking in high winds, more convenient installation & maintenance, and more stable technical processes**. It is built to meet customers' needs for efficient power generation throughout the entire product lifecycle. A single row can accommodate up to 4 strings with a maximum length of 140 meters. It utilizes a high-speed slew gear rotary reducer for the driver, offering dual protection with all posts self-locking and axisymmetric damping. This design ensures rapid system protection and enhanced safety.

Bracket Product Parameters

● Tracking Type	Horizontal single-axis tracker (HAST) independent row	● Module Supportedt	Compatible with all types of modulest
● Tracking Range of Motion	±60°	● Operation Temperature	-40 to 60°C (Optional ultra-low temperature battery is required if the temperature is below -25°C)
● Drive Device/Number	Rotary reduction gearbox (1-2 points)	● Slope Adaptation	≤15%(S-N and E-W)
● Protection Strategy	60° large-angle + all posts self-locking	● Control Algorithm/Controller	Astronomical algorithm & position sensor closed-loop control
● Number of Components per Tracking System	120 pcs	● Tracking Accuracy	≤ 1°
● Power Supply Voltage	≤30V (default, optional ≤1500V)	● Backtracking	Available
● Foundation Options	Ramming pile/concrete pile/PHC pile	● Communication Options	Wireless communication (Lora, Zigbee)
● Structural Materials	Hot dipped galvanized/ZAM high-strength steel	● Other Optional Modes	Snow, flood, and hailstone modes
● Daily Power Consumption	~0.03 kWh/day	● Power Supply	String/small component/AC power supply with lithium battery backup
● Design Wind Speed	Up to 70 m/s	● Warranty Period	Structural components: 10 years Drive and electrical control components: 5 years

