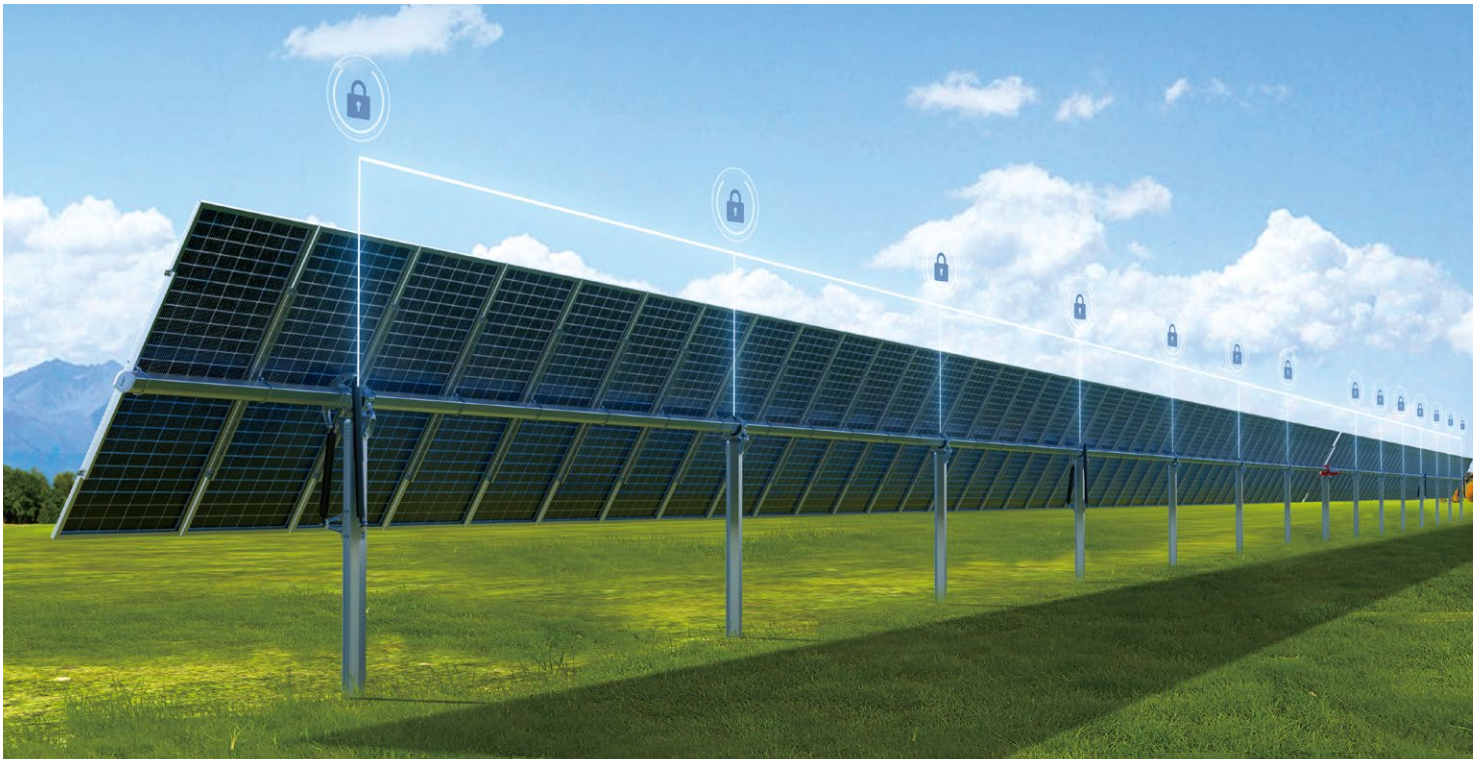

ESEEK-STEADY

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 torque tube connection
- Quick-install purlin system

Stable and Reliable

Stable Craftsmanship and Reliable Structure

- Diamond-shaped locking torque tube
- Openable bearing housing system
- Stable production process
- Enhanced protection against fatigue damage in carriage bolt nodes

Superior Efficiency

Smart Commissioning for Effortless and Worry-Free Operation

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

Introduction

ESEEK-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.

Product Parameters

Tracking Type	Horizontal single-axis tracker (HSAT)
Tracking Range of Motion	±60°
Drive Device/Number	Rotary Slew driver (1-2 points)
Protection Strategy	60° large-angle + all posts self-locking
Number of Module per Tracking System	≤120 pcs
Power Supply Voltage	≤30V (default, optional ≤1500V)
Foundation Options	Ramming pile/concrete pile/PHC pile
Structural Materials	Hot dipped galvanized/ZAM high-strength steel
Daily Power Consumption	0~0.03 kWh/day/tracker
Design Wind Speed	Up to 70 m/s

Module Compatibility	Compatible with all types of module
Operation Temperature	-40 to 60℃ (Optional ultra-low temperature battery is required if the temperature is below -25℃)
Slope Adaptation	≤15%(S-N and E-W)
Control Algorithm/Controller	Astronomical algorithm & position sensor closed-loop control
Tracking Accuracy	≤ 1°
Backtracking	Available
Communication Options	Wireless communication (Lora, Zigbee)
Other Optional Modes	Snow, flood, and hailstone modes
Power Supply	String/small module/AC power supply with lithium battery backup
Warranty Period	Structural components: 10 years Drive and electrical control components: 5 years

700MW Fushan Gonghe Source-Network-Load-Storage Yellow River Photovoltaic Project

13.6MW Single-Axis Tracking Bracket Photovoltaic Station Project in Tocantins, Brazil