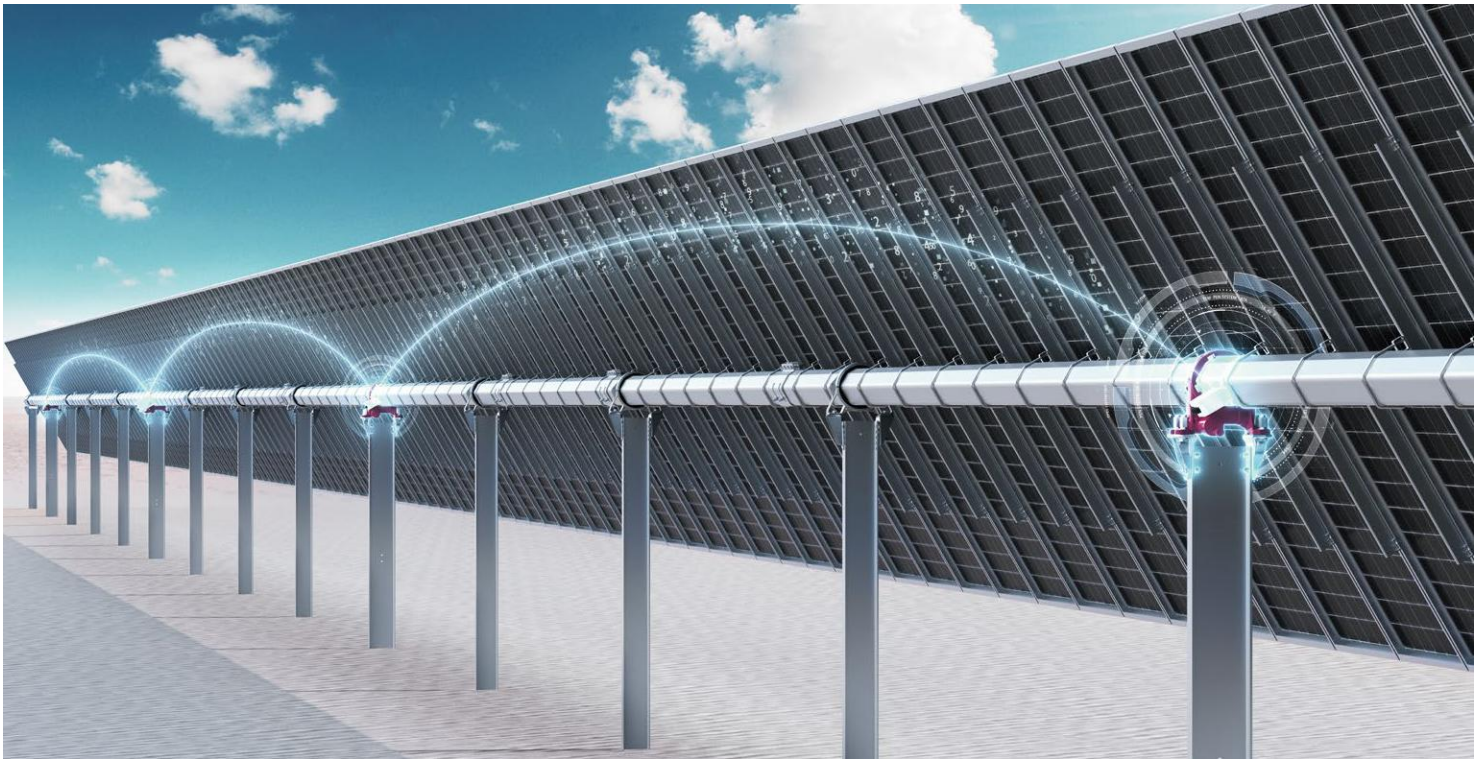

ESEEK-Strider

Advantages

Optimal Cost

Ultra-Long Span Design, Saving Piles and Materials

- The super-long single-row design reduces posts by 25%, significantly cutting construction costs
- Large-diameter polygonal main beams increase strength by 35%
- Square purlin system increases the bending resistance by 135%, enabling quick module installation and doubling efficiency

Ultimate Safety

Protection Against Strong Winds

- High load & stable locking
- Axisymmetric damping
- Certified by CPP wind tunnel testing

Stable and Reliable

Stable Craftsmanship and Reliable Structure

- Carriage bolt pair significantly enhances connection rigidity
- Multi-point electrical synchronization ensures synchronized rotation across an extra-long arrangement, preventing system delays or instability
- Certified by CPP wind tunnel testing

Superior Efficiency

Triple-Core Drive for Rapid Response

- Intelligent control all-region interconnection: NCU + TCU + SCADA triple-core system ensures rapid drive response

Introduction

The **ESEEK-Strider** is a single-row 1P independent tracking system designed for large-scale ground power plants, with the design ideas of **ultra-high wind pressures, extended layouts, and super-wide spans**. The system utilizes multi-point synchronized electric linkage technology paired with large-diameter polygonal main beams. It can accommodate up to 6 strings, with a maximum row length of 180 meters and main beam spans of up to 11 meters. The system features a strong expansion with multi-rotation drives and locking, with high safety performance.

Bracket Product Parameters

Tracking Type	Horizontal single-axis tracker (HAST) independent row
Tracking Range of Motion	±60°
Drive Device/Number	Rotary reduction gearbox (multiple points)
Protection Strategy	0° leveling + multi-point motor self-locking
Number of Components per Tracking System	160 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	~0.06 kWh/day
Design Wind Speed	Up to 70 m/s

Module Supportedt	Compatible with all types of modulest
Operation Temperature	-40 to 60°C (Optional ultra-low temperature battery is required if the temperature is below -25°C)
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 component/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