



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 Octagonal torque tube increase strength by 35%
- Rectangular 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
- 0° with multi-drive self-locking protection
- Certified by CPP wind tunnel testing



Stable and Reliable

Stable Craftsmanship and Reliable Structure

- Carriage-bolt pairs significantly enhances connection rigidity
- Multi-point electrical synchronization ensures synchronized rotation across an extra-long arrangement, preventing system delays or instability



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 **ESEK-Strider** is an Octagonal torque tube with multi-drive single axis 1P 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 torque tube. It can accommodate up to 6 strings, with a maximum row length of 180 meters and torque tube spans of up to 11 meters. The system features a strong expansion with multi-rotation drives and locking, with high safety performance.

Product Parameters

● Tracking Type	Horizontal single-axis tracker (HSAT)	● Module Compatibility	Compatible with all types of module
● 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 Slew driver (multiple points)	● Slope Adaptation	≤15%(S-N and E-W)
● Protection Strategy	0° + multi-drive self-locking	● Control Algorithm/Controller	Astronomical algorithm & position sensor closed-loop control
● Number of Module per Tracking System	≤160 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	0~0.06 kWh/day/track	● Power Supply	String/small module/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

