



# EXCEED

EXCEED is an Octagonal torque tube with multi-drive single axis 2P Tracking system, which is developed with the philosophy of **double the capacity, revolutionize efficiency**. By integrating innovative multi-point linkage structure and synchronized drive technology, the system significantly increases the capacity of a single unit while effectively reducing the number of foundations and the amount of steel used, delivering system-level cost reduction and efficiency enhancement. Additionally, the breakthrough in multi-point drive technology solves the aerodynamic stability challenges of large chord-length structures under high wind conditions, providing the power plant with enhanced safety and easier operation and maintenance. This translates into higher returns on investment and a more robust operational experience for customers.



## Robust Structure

- **Patented Torque Tube – Bend & Torsion Resistant.** The patented Octagonal torque tube offers excellent resistance to bending and torsion, providing a reliable foundation for the 2-in-portrait modules.



## Synchronized Control

- **Synchronized Drive – Precise Locking.** Smart multi-point electrical linkage with synchronized drive and locking improves system stability and reliability.



## Flexible Configuration

- **Flexible String Configuration – Easy Expansion.** The system offers flexible string configuration with strong expansion capabilities, accommodating module layouts and enhancing design freedom.



## Smart O&M

- **Wireless Transmission – APP Debugging.** Integrated with wireless communication and App-based debugging, the system enables easy networking, rapid array commissioning, and efficient operation and maintenance.

## BASIC SPECS



● System Parameters	Tracking Type	Horizontal single-axis tracker (HSAT)
	Tracking Range of Motion	±60°
	Drive Device/Number	Rotary Slew driver (multiple points)
	Protection Strategy	0° with multi-driving self-locking protection
	Number of Installable Strings	Supports 2 to 6 strings
	System Voltage	≤30V (default, optional ≤1500V)
	Foundation Options	Ramming pile/concrete pile/PHC pile
	Structural Materials	Hot dipped galvanized/ZAM high-strength steel
	Power Supply Type	String/small module/AC power supply
	Daily Power Consumption	0.05 – 0.08 kWh/day/tracker
	Design Wind Speed	Up to 60m/s
	Module Compatibility	Compatible with all mainstream module
	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)
	Warranty Period	Structural components: 10 years Drive and electrical control components: 5 years
● Control Parameters	Control Algorithm/Controller	Astronomical algorithm & position sensor closed-loop control
	Tracking Accuracy	≤ 1°
	Backtracking	Supports terrain-adaptive anti-shadow intelligent algorithm
	Communication Options	Wireless communication (Lora, Zigbee)
	Other Optional Modes	Night return/Heavy snow protection/Flood protection modes
	Backup Power	Lithium battery backup
	Flood Protection Mode	The tracker can fold flat and stow away (optional)
	Snow Protection Mode	Maximum angle (optional)
	Cleaning Mode	Angle-adaptive robot cleaning, custom settings
	Maintenance Mode	Angle-adaptive maintenance, custom settings
	Manual Mode	Manual tracker rotation
	Ingress Protection (IP) Rating	IP65

