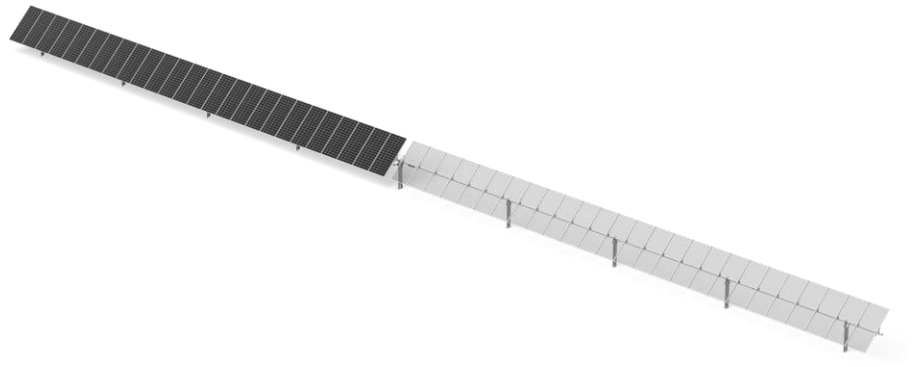


TAI-Simple

Slew-Drive Single-Axis
Independent Tracking System - 1P



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Slew-drive Single-axis
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DESIGN SPECIFICATION

Tracking Type	Horizontal Single-Axis 1 Module-in-Portrait Tracker
Drive Type	Single Point Slew drive
Motor Type	24V DC Motor
String Voltage	1000 V or 1500 V (DC)
Tracker Length	Up to 97m
Tracker Configuration	Up to 3 strings (1500V DC)
Module Number	Up to 90 modules (depending on module size)
Ground Coverage Ratio (GCR)	>25%
Modules Support	All Commercial Modules (210/182/166)
Stow Position	30° (configurable, depending on the project requirement)
Tracker Rotation Range	Up to ±60°
Operating Temperature Range	-30° C to 60° C
Foundation Type	Ramming/Pre-drilling/Concrete Pile/PHC
Anti-Corrosion Coating	Pre-Galvanized/Hot-dipped Galvanized/Magnesium Zinc Coated Steel
Allowable Wind Speed	Up to 55 m/s per ASCE 7-10
Slope Tolerances	N-S: Up to 20% (11°)

ELETRONICS & CONTROLS

Control System	1 controller per tracker
Power Supply	300-1500VDC String Powered, 90-264VAC Powered, Backup lithium battery
Solar Tracking Algorithm	battery
Controller Energy Consumption	Astronomical Algorithms+Intelligent Algorithms
Tracking Accuracy	About 0.05 kWh/Day
Communications	±2°
Nighttime Stow	Zigbee Wireless Mesh Network/ Ethernet or RS485 Cable
Backtracking	Yes Yes (3D optional)

INSTALLATION & SERVICE

Onsite Training	Yes
Installation requirement	No special tools required
Warranty	Up to 10 Year Drive and Control, 15 Year Structure, 5 years Batteries
Certifications	UL3703/CE/UL2703/IEC62817