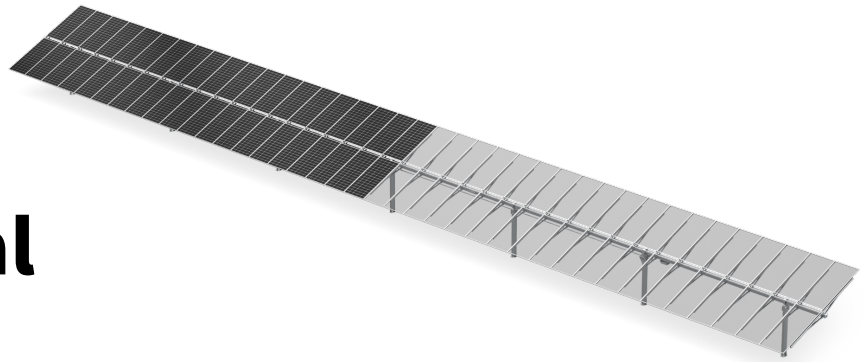


TAI-Universal

Multiple Slew-Drive Single-Axis
Independent Tracking System—2P



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Multiple Slew-Drive Single-Axis
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DESIGN SPECIFICATION

Tracking Type	Horizontal Single-Axis 2 Modules-in-Portrait Tracker
Drive Type	Synchronous Multi-Point Slew drive
Motor Type	24V DC Motor
String Voltage	1000 V or 1500 V (DC)
Tracker Length	Up to 70m
Tracker Configuration	Up to 4 strings (1500V DC)
Module Number	90 -120 modules, depending on module size
Ground Coverage Ratio (GCR)	25%-45% (Typical)
Modules Support	All Commercial Modules (210/182/166)
Stow Position	5° (configurable, depending on the project requirement)
Tracker Rotation Range	Up to $\pm 60^\circ$
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
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	Astronomical Algorithms+Intelligent Algorithms
Controller Energy Consumption	About 0.08kWh/Day
Tracking Accuracy	$\pm 2^\circ$
Communications	Zigbee Wireless Mesh Network/ Ethernet or RS485 Cable
Nighttime Stow	Yes
Backtracking	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