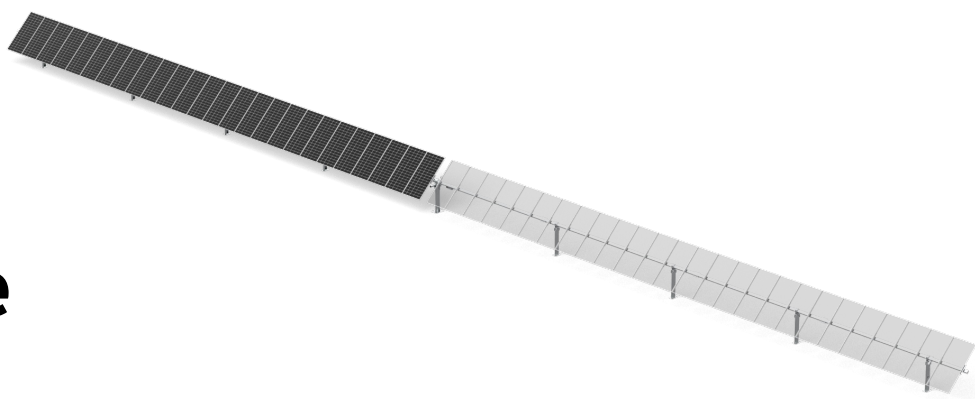


# TAI-Simple

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



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## DESIGN SPECIFICATION

<b>Tracking Type</b>	Horizontal Single-Axis 1 Module-in-Portrait Tracker
<b>Drive Type</b>	Single Point Slew drive
<b>Motor Type</b>	24V DC Motor
<b>String Voltage</b>	1000 V or 1500 V (DC)
<b>Tracker Length</b>	85m - 95m
<b>Tracker Configuration</b>	3 of 1500V strings
<b>Module Number</b>	90 modules, depending on module size
<b>Ground Coverage Ratio (GCR)</b>	>25%
<b>Modules Support</b>	All Commercial Modules (210/182/166)
<b>Stow Position</b>	30°
<b>Tracker Rotation Range</b>	±60° ( ±50° Optional
<b>Operating Temperature Range</b>	) -30 °C to 60°C
<b>Foundation Type</b>	Driven Pile / Concrete / PHC /Ramming
<b>Materials</b>	Pre-Galvanized/Hot-dipped Galvanized/Magnesium Zinc Coated Steel
<b>Allowable Wind Speed</b>	Up to 47 m/s per ASCE 7-10
<b>Onsite Training</b>	Included
<b>Installation requirement</b>	No special tools required
<b>Slope Tolerances</b>	North-South 11° (20%)
<b>Warranty</b>	10 Year Drive and Control, 15 Year Structure

## ELETRONICS AND CONTROLS

<b>Control System</b>	1 controller per tracker
<b>Power Supply</b>	300-1500VDC String Powered, 90-264VAC Powered, Backup lithium battery
<b>Solar Tracking Algorithm</b>	Astronomical Algorithms+Intelligent Algorithms
<b>Controller Energy Consumption</b>	0.08 kWh/Day
<b>Tracking Accuracy</b>	±2°
<b>Communications</b>	Zigbee/Lora Wireless Mesh Network/ Ethernet or RS485 Cable
<b>Nighttime Stow</b>	Yes
<b>Backtracking</b>	Yes
<b>Certifications</b>	UL 3703 / CE / UL 2703 (pending)/IEC 62817