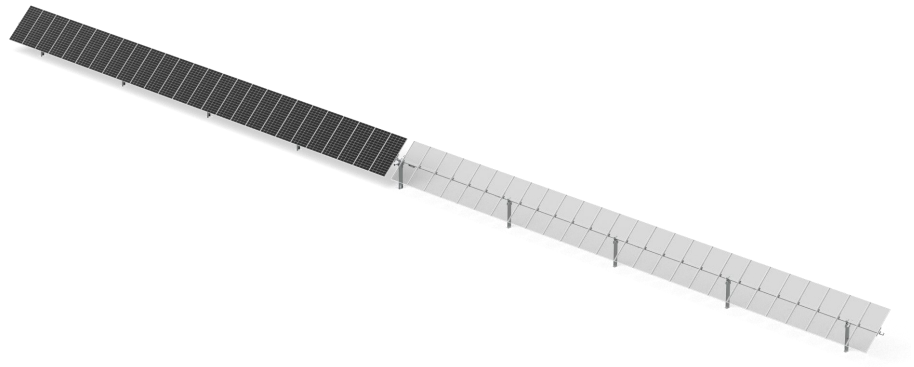


# TAI-Simple

Single Slew-drive Single-axis  
Independent Solar Tracking System - 1P



# TAI-Simple

Single Slew-drive Single-axis  
Independent Solar Tracking System - 1P

## DESIGN SPECIFICATION

<b>Tracking Type</b>	Single Slew-drive Single-axis Independent Solar Tracking System - 1P
<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>	Up to 97m
<b>Tracker Configuration</b>	Up to 3 Strings (1500V DC)
<b>Module Number</b>	Up to 90 Modules (Depending on Module Size)
<b>Ground Coverage Ratio (GCR)</b>	>25%
<b>Modules Support</b>	All Commercial Modules (182/210R/210)
<b>Stow Position</b>	30° (Configurable, Depending on the Project Requirement)
<b>Tracker Rotation Range</b>	Up to $\pm 60^\circ$
<b>Operating Temperature Range</b>	-30°C to 60°C
<b>Foundation Type</b>	Ramming/Concrete with Steel Pile/Concrete Pile/PHC
<b>Anti-Corrosion Coating</b>	Pre-Galvanized/Hot-dipped Galvanized/Magnesium Zinc Coated Steel
<b>Allowable Wind Speed</b>	Up to 55 m/s per ASCE 7-10
<b>Slope Tolerances</b>	N-S: Up to 20% (11°)

## ELETRONICS & 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>	About 0.05 kWh/Day
<b>Tracking Accuracy</b>	$\pm 2^\circ$
<b>Communications</b>	Zigbee Wireless Mesh Network/ Ethernet or RS485
<b>Nighttime Stow</b>	Yes
<b>Backtracking</b>	Yes (3D Optional)

## INSTALLATION & SERVICE

<b>Onsite Training</b>	Yes
<b>Installation requirement</b>	No Special Tools Required
<b>Warranty</b>	10 Years Structure, 5 Years Drive and Control, 2 Years Batteries