

## TAI-Simple

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



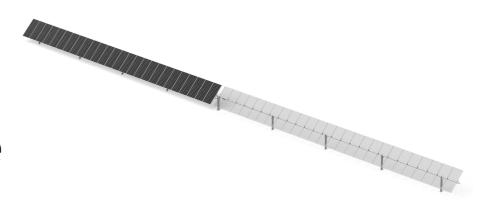












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DESIGN SPECIFICATION /

**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  $\pm 60^{\circ}$ 

**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 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

300-1500VDC String Powered, 90-264VAC Powered, Backup lithium battery **Power Supply** 

**Solar Tracking Algorithm** Astronomical Algorithms+Intelligent Algorithms

About 0.05 kWh/Day **Controller Energy Consumption** 

> $\pm 2^{\circ}$ **Tracking Accuracy**

Communications Zigbee Wireless Mesh Network/ Ethernet or RS485 Cable

**Nightime 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

Certifications UL3703/CE/UL2703/IEC62817