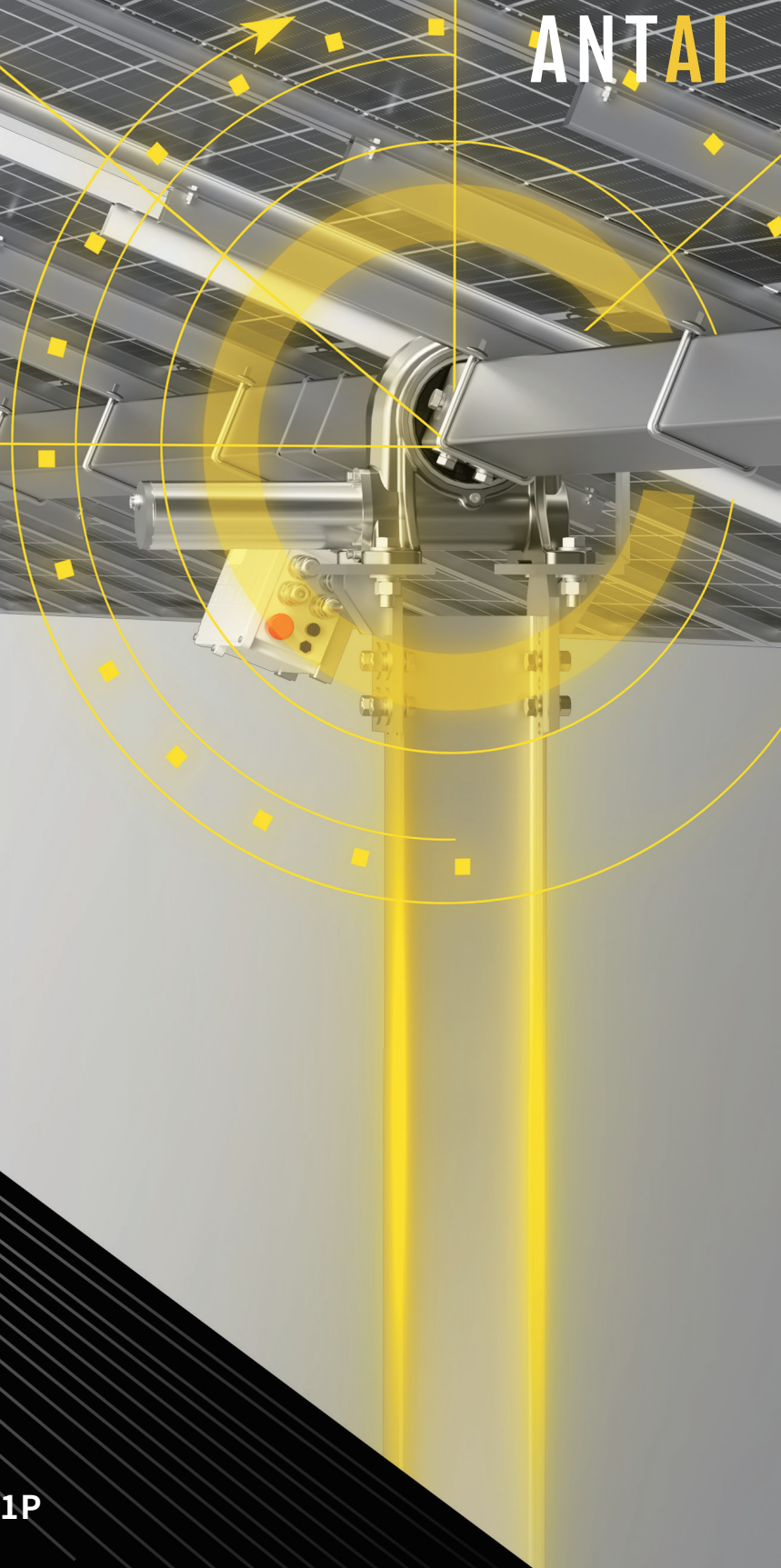




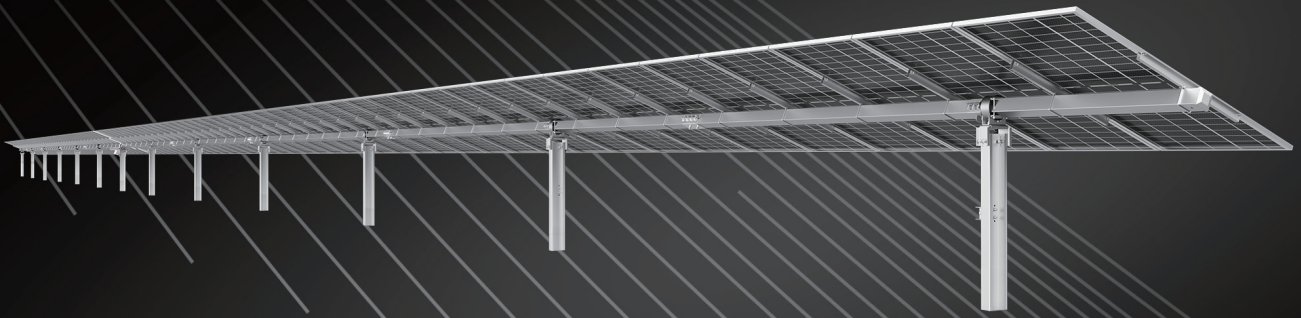
ANTAI



TAI Simple

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





Design Specification

TrackingType	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
Tracker Length	Up to 97m
Tracker Configuration	Up to 3 of 1500V Strings
Module Number	Up to 90 Modules per Tracker
Ground Coverage Ratio (GCR)	25%-45% (Typical)
Modules Support	All Commercial Modules (210/182/166)
Stow Position	25-35°
Tracker Rotation Range	±60°
Temperature Range	-30 °C to 85°C
Foundation Type	Driven Pile / Concrete / PHC
Materials	Pre-Galvanized/Hot-dipped Galvanized/Magnesium Zinc Coated Steel
Allowable Wind Speed	Up to 47 m/s (ASCE 7-10)
Onsite Training	Included
Installation requirement	No Special Tools Required
Slope Tolerances	North-South 11° (20%)
Warranty	10 year Drive and Control 15 year Structure
Control System	1 Controller per Tracker
Power Supply	Power by PV String (DC), Inverter (AC), Transformer (AC) Backup Li-ion Battery
Solar Tracking Algorithm	Astronomical Algorithms+Intelligent Algorithms
Controller Energy Consumption	≤0.1 kWh/Day
Tracking Accuracy	±2°
Communications	Zigbee Wireless Mesh Network/ Ethernet or RS485 Cable
Nighttime Stow	Yes
Backtracking	Yes
Certifications	UL 3703 / CE / UL 2703 / IEC 62817

Electronics And Controls

