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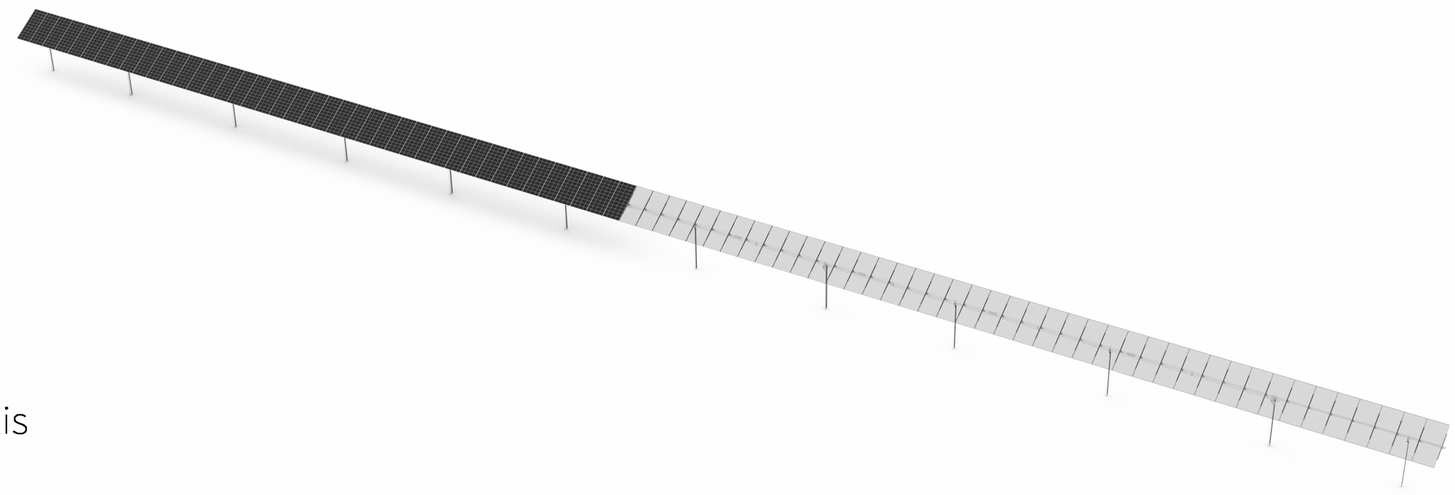
AT-**SPARK**

Multi-Slew Mechanical Linkage Single-Axis Independent Solar Tracking System - 1P

CPP Intertek IEC SGS TÜV UL DNV gamcorp CE

The product specification depends on the circumstances of the project.



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Multi-Slew Mechanical Linkage Single-Axis
Independent Solar Tracking System - 1P

DESIGN SPECIFICATION

Tracking Type	Horizontal Single-Axis 1 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 143m
Tracker Configuration	Up to 4 strings (1500V DC)
Module Number	90 -120 modules, depending on module size
Ground Coverage Ratio (GCR)	＞25%
Modules Support	All Commercial Modules (210/182/166)
Stow Position	0° (configurable, depending on the project requirement)
Tracker Rotation Range	Up to ±60°
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 70 m/s per ASCE 7-10
Slope Tolerances	N-S: Up to 15% (8.5°)

ELECTRONICS &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	±2°
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

ANTAI TECHNOLOGY CO.,LTD **Tel** 0592-5902511 **Website** www.antaisolar.com **E-mail** sales@antaisolar.com **Add** Winland International Financial Center, No. 1 Jinrong Street, Xiamen, Fujian, China