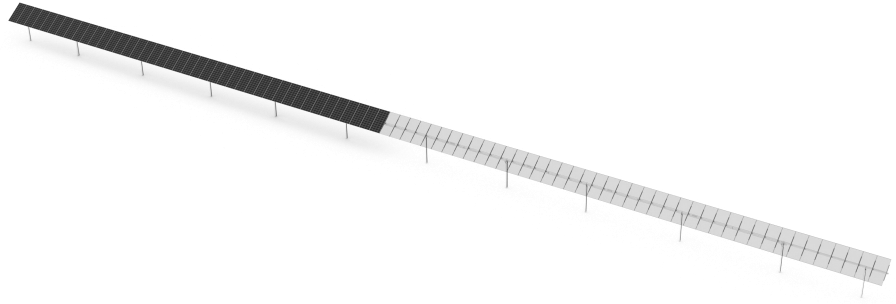




# AT-SPARK

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



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## DESIGN SPECIFICATION

Tracking Type	Multiple Slew-drive Single-axis Independent Solar Tracking System - 1P
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 (182/210R/210)
Stow Position	0° (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/Concrete with Steel Pile/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	$\pm 2^\circ$
Communications	Zigbee Wireless Mesh Network/ Ethernet or RS485
Nighttime Stow	Yes
Backtracking	Yes (3D Optional)

## INSTALLATION & SERVICE

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