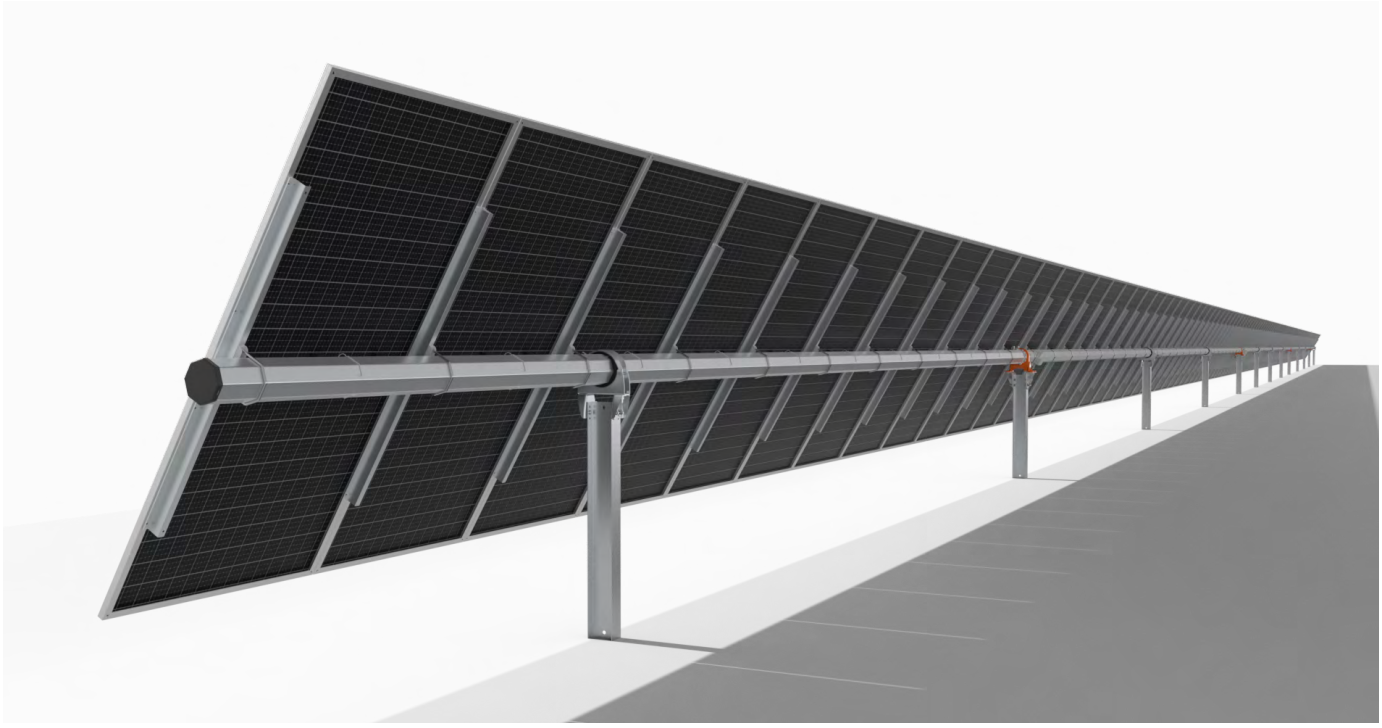
D1P120 Newest Generation One Portrait Smart Solar Tracker



Advantages

- Multi-drive System for Maximum Aeroelastic Stability
- Advanced Smart Control
- Excellent Adaptability for Irregular Terrains
- Full Professional Certification

Power Generation Increased
Up to 25%
Newest Generation 1 x Portrait Smart Solar Tracking System

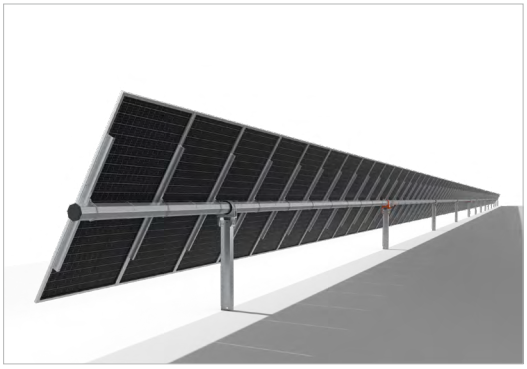
Features

The innovative model is characterized by its high system stability throughout the life of the solution, maximizing the energy output for solar plants. Innovative structure with fewer parts, ensure the system is more durable and faster to install. This system can be flexibly used for sites with challenging soils and delivers a perfect solution for Agrivoltaics and Fisheryvoltaics projects.

- Higher power density - supports up to 120 modules with 4×1,500V-strings
- Lower construction costs - easy and quick installation with fewer parts
- Bifacial compatibility - secures the maximum power generation

Technical Details

PV-Modules	
PV-Modules supported	Compatible with modules up to 700W or 210 cells
Structure	
Type	Horizontal single-axis, independent row
Maximum capacity per row	75kWp (Estimated with 630W PV-Modules)
PV-Modules quantity per row	Up to 120 modules, depending on module string length
Bifacial features	Available with optimized central torque tube gap
PV-Modules configuration	One in portrait 4 x 1,500 strings per standard tracker
PV-Modules attachment	By bolts, can self-grounding and electrical tool-actuated
Tracking range	±60° (120°)
Tracking accuracy	≤2°
Ground coverage ratio (GCR)	30% to 50%
Structural materials	HDG steel, Zn-Al-Mg coating steel
Foundation	Steel pile, Concrete foundation
Quantity of foundation/MW	Normally about 170 PCS/MW (Estimated with 630W PV-Modules)
Electrical	
Motor type	24V DC Motor
Drive method	Patented multi-drive
Solar tracking method	Astronomical algorithm + closed-loop control integrated AI control tracking algorithm
Signal transmission	Wire or wireless
Backtracking	Yes
Power supply	Option1: Array powered, integrated backup battery Option2: AC powered, customer-provided AC circuit
Protection Function	
Night stow mode	Yes
Wind protection	Intelligent wind stowing with self-locking Multi-drive system for maximum array stability
Environment	
Wind load	Configurable up to 60m/s (3S gust)
Operating temperature	Array powered: -20°C to +60°C AC powered: -30°C to +60°C
Civil and Installation	
Slope tolerance	North-south up to 15%, East-west with no limits
Special tools	Not required
Other	
Onsite training & commissioning	Yes
Design standards	EURCODE 0-9 | NTC 2018 | AS NZS 1170.2 | ASCE 7-16 | JISC 8955 | GB 50009
Corrosion Grade	C1-C4 (C5 need to check with request)
Warranty	10 years for main structure 5 years for drive and control components (Warranty extension can be customized according to the project)



TÜV Certification

ETL Certification

CPP Wind Tunnel Test

CE Certification

ISO 9001 Certification

Carbon Footprint Certification

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