

D2P120 Newest Generation Two Portrait Smart Solar Tracker



Advantages

- Multi-drive System for Maximum Aeroelastic Stability
- Advanced Smart Control
- Flexible Layout for Irregular Terrains

Power Generation Increased

Up to 25%

Newest Generation 2 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. 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 4x1,500V-strings
- Lower construction costs - requires 135 posts per MW
- Bifacial compatibility - secures the maximum power generation



Tracking



Backtracking



Diffuse Tracking



Night Stow



Wind Stow



Snow Stow



Rain Clean



Flood Stow

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	65kWp (Estimated with 545W 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	2 in portrait 4 x 1,500 strings per standard tracker
PV-Modules attachment	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 135 PCS/MW (Standard W8 section foundation posts)
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 190 kph (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
Corrosion Grade	C1-C4 (C5 need to check with request)
Design standards	EURCODE 0-9 NTC 2018 AS NZS 1170.2 ASCE 7-16 JISC 8955 GB 50009
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

Clenergy

3/10 Duerdin St
Clayton VIC 3168 Australia



Phone: +61 3 9239 8088

Email: sales@clenergy.com.au

Web: www.clenergy.com.au

 @ClenergyGlobal / @ClenergyClub /
@ClenergyAUS / @ClenergyThailand

 @Clenergy_global  @Clenergy

 @Clenergy  @ClenergyClub