

# 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 4×1,500V-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



Hail Stow



Flood Stow

## Technical Details

<b>PV-Modules</b>	
PV-Modules supported	Compatible with modules up to 700W or 210 cells
<b>Structure</b>	
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)
<b>Electrical</b>	
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
<b>Protection Function</b>	
Night stow mode	Yes
Wind protection	Intelligent wind stowing with self-locking Multi-drive system for maximum array stability
<b>Environment</b>	
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
<b>Civil and Installation</b>	
Slope tolerance	North-south up to 20%, East-west with no limits
Special tools	Not required
<b>Other</b>	
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)



**TUV Certification**



**ETL Certification**



**CPP Wind Tunnel Test**



**DNV Bankability**



**CE Certification**

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