

D1P One Portrait Horizontal Single-axis Tracker



Advantages

- Advanced Smart Control
- Flexible Layout for Irregular Terrains
- Comprehensive Certification
- Easy and Quick Installation

Power Generation Increased

Up to 25%

Compared to a Standard Fixed Tilt System

Features

Clenergy presents an adaptable, cost-effective solar tracker ideal for commercial or utility scale PV projects.

- Terrain adaptability – slope up to 20%
- Customisable foundation variations
- Easy-to-install structure
- Advanced AI control and excellent wind stability



Tracking



Backtracking



Diffuse
Tracking



Night
Stow



Wind
Stow



Snow
Stow



Rain Clean



Hail Stow



Flood Stow

Technical Details

PV-Modules	
PV-Modules supported	Compatible with modules up to 700W or 210 cells
Structure	
Type	Horizontal single-axis tracker
Maximum capacity per row	45.78kWp (Estimated with 545W PV-Modules)
PV-Modules quantity per row	90 PCS (1x90)
Tracking range	±60° (120°)
Tracking accuracy	≤2°
Structural materials	HDG steel, Zn-Al-Mg coating steel
Foundation	Steel pile, PHC pile, Concrete foundation
Quantity of foundation/MW	Normally about 250 PCS/MW (Estimated with 545W PV-Modules)
Electrical	
Motor type	24V DC Motor
Motor quantity	1 motor per row
Drive method	Slewing drive
Solar tracking method	Astronomical algorithm + closed-loop control
Control system	MCU
Signal transmission	Wire (RS485) or wireless (Zigbee)
Backtracking	Yes
Power supply	Self-powered or grid-powered
Commission	By mobile phone App
1000V System or 1500V System	Both available
Protection Function	
Night stow mode	Yes
Overheat prevention	Yes
Environment	
Wind load	Customisable according to local condition
Operating temperature	-30°C to +60°C
Civil and Installation	
Slope tolerance	Up to 20%
Special tools	Not required
Other	
Onsite training & commissioning	Yes
Design standards	ASCE 7-16 EURCODE 0-9 JISC 8955 AS NZS 1170.2 GB 50009
Warranty	10 years for main structure 5 years for drive and control components



TUV Certification



ETL Certification



CPP Wind Tunnel Test



DNV Bankability



CE Certification

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