

D1P One Portrait Horizontal Single-axis Tracker



Advantages

- Ground Tilt Angle Up to 20%
- Wind Tunnel Test Certified
- Agrivoltaics Opportunities

Power Generation Increased

15-30%

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 – allows for ground tilt from 10% to 20%
- Customisable foundation variations
- Modular design – easier maintenance
- Increased stability



IEC 62817



Wind Tunnel Test

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-Mg-Al 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
Troubleshooting available	Yes (Driving abnormally > Self-diagnostics)
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
Codes and standards	UL 3703 UL 2703 IEC 62817
Warranty	10 years for main structure 5 years for drive and control components



TUV Certification



ETL Certification



CPP Wind Tunnel Test



DNV Bankability