

D2P 120 Newest Generation Two Portrait Smart Solar Tracker



Advantages

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



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

.

Rain Clean

Hail Stow

Flood Stow



Technical Details

PV-Modules supported Structure Type Horizontal single-axis, independent row Maximum capacity per row 65kWp (Estimated with 545W PV-Modules) PV-Modules quantity per row Bifacial features Available with optimized central torque tube gap PV-Modules attachment For Modules attachment Self-grounding and electrical tool-actuated For Modules attachment For Modules attachment For Modules attachment Self-grounding and electrical tool-actuated For Modules attachment For Modules attachment Self-grounding and electrical tool-actuated For Modules attachment For Modules attachment Self-grounding and electrical tool-actuated For Modules attachment For Modules attachment Self-grounding and electrical tool-actuated For Modules attachment For Modules attachment Self-grounding and electrical tool-actuated For Modules attachment For Modules attachmen	PV-Modules	
Type Horizontal single-axis, independent row Maximum capacity per row 65kWp (Estimated with 545W PV-Modules) PV-Modules quantity per row 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 Foundation Steel pile, PHC pile, Concrete foundation Quantity of foundation/MW Foundation posts) Electrical Motor type 24V DC Motor Drive method Patented multi-drive Solar tracking method Astronomical algorithm + closed-loop control integrated Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) Backtracking Yes Power supply Option: 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 (35 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 20%, East-west with no limits Special tools Not required Other Onsite training & Vas	PV-Modules supported	Compatible with modules up to 700W or 210 cells
Maximum capacity per row 65kWp (Estimated with 545W PV-Modules) PV-Modules quantity per row PV-Modules quantity per row 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 Foundation Steel pile, PHC pile, Concrete foundation Normally about 135 PCS/MW (Standard W8 section foundation posts) Electrical Motor type 24V DC Motor Drive method Patented multi-drive Solar tracking method integrated Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) 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 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 20%, East-west with no limits Not required Other Onsite training &	Structure	
PV-Modules quantity per row 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 Foundation Steel pile, PHC pile, Concrete foundation Quantity of foundation/MW Formally 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 Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) 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 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 Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Posite training & Yes Onsite training & Yes	Туре	Horizontal single-axis, independent row
length	Maximum capacity per row	65kWp (Estimated with 545W PV-Modules)
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 Foundation Steel pile, PHC 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 integrated Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) 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 20%, East-west with no limits Special tools Not required Other Onsite training &	PV-Modules quantity per row	
PV-Modules attachment Self-grounding and electrical tool-actuated Tracking range	Bifacial features	Available with optimized central torque tube gap
Tracking range ±60° (120°) Tracking accuracy ≤2° Ground coverage ratio (GCR) 30% to 50% Structural materials HDG steel Foundation Steel pile, PHC 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 (RS485) or wireless (Zigbee) 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) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training & Yes	PV-Modules configuration	2 in portrait 4 x 1,500 strings per standard tracker
Tracking accuracy ≤2° Ground coverage ratio (GCR) 30% to 50% Structural materials HDG steel Foundation Steel pile, PHC 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 Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) 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) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training & Yes	PV-Modules attachment	Self-grounding and electrical tool-actuated
Ground coverage ratio (GCR) 30% to 50% Structural materials HDG steel Foundation Steel pile, PHC 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 (RS485) or wireless (Zigbee) 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 (35 gust) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training & Yes	Tracking range	±60° (120°)
Structural materials HDG steel Foundation Steel pile, PHC pile, Concrete foundation Normally about 135 PCS/MW (Standard W8 section foundation posts) Electrical Motor type 24V DC Motor Drive method Patented multi-drive Solar tracking method Signal transmission Wire (RS485) or wireless (Zigbee) 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 20%, East-west with no limits Other Onsite training & Ves	Tracking accuracy	≤2°
Foundation Steel pile, PHC pile, Concrete foundation Normally about 135 PCS/MW (Standard W8 section foundation posts) Electrical Motor type 24V DC Motor Drive method Patented multi-drive Solar tracking method Signal transmission Wire (RS485) or wireless (Zigbee) 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 20%, East-west with no limits Special tools Not required Other Onsite training &	Ground coverage ratio (GCR)	30% to 50%
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 (RS485) or wireless (Zigbee) 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 AC powered: -30°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Structural materials	HDG steel
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 (RS485) or wireless (Zigbee) 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 20%, East-west with no limits Special tools Not required Other Onsite training & Yes	Foundation	Steel pile, PHC pile, Concrete foundation
Motor type 24V DC Motor Drive method Patented multi-drive Solar tracking method Signal transmission Wire (RS485) or wireless (Zigbee) 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 20%, East-west with no limits Special tools Not required Other Onsite training &	Quantity of foundation/MW	
Drive method Patented multi-drive Solar tracking method Astronomical algorithm + closed-loop control integrated Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) 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 20%, East-west with no limits Special tools Not required Other Onsite training &	Electrical	,
Solar tracking method Astronomical algorithm + closed-loop control integrated Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) 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) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training & Yes	Motor type	24V DC Motor
solar tracking method integrated Al control tracking algorithm Signal transmission Wire (RS485) or wireless (Zigbee) 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 20%, East-west with no limits Special tools Not required Other Onsite training & Yes	Drive method	Patented multi-drive
Backtracking 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) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Solar tracking method	
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) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Signal transmission	Wire (RS485) or wireless (Zigbee)
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) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Backtracking	Yes
Night stow mode 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) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Power supply	
Wind protection Intelligent wind stowing with self-locking Multi-drive system for maximum array stability Environment Wind load Configurable up to 190 kph (35 gust) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Protection Function	
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 20%, East-west with no limits Special tools Not required Other Onsite training & Yes	Night stow mode	Yes
Wind load Configurable up to 190 kph (3S gust) Array powered: -20°C to +60°C AC powered: -30°C to +60°C Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Wind protection	
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 20%, East-west with no limits Special tools Not required Other Onsite training &	Environment	
Civil and Installation Slope tolerance North-south up to 20%, East-west with no limits Special tools Other Onsite training & Yes	Wind load	Configurable up to 190 kph (3S gust)
Slope tolerance North-south up to 20%, East-west with no limits Special tools Not required Other Onsite training &	Operating temperature	
Special tools Not required Other Onsite training & Yes	Civil and Installation	
Other Onsite training & Ves	Slope tolerance	North-south up to 20%, East-west with no limits
Onsite training & Yes	Special tools	Not required
YAC	Other	
	0	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	Warranty	10 years for main structure





TUV Certification



ETL Certification



CPP Wind Tunnel Test



DNV Bankability



CE Certification

Clenergy Deutschland Gmbh

Willy-Brandt-Straße 23, 20457 Hamburg, Germany

Phone: +49 (0) 40 3562 389 00 Email: sales@clenergy.com Web: www.clenergy.com

@ClenergyGlobal / @ClenergyClub / @ClenergyAUS / @ClenergyThailand







