Renewable Energy
POWERWAY

PowerFit

Powerway Tracking System

Smart O&M | Robust | Durable

PowerFit Datasheet

Horizontal Single Axis 2XN Independent Tracking System With Bifacial PERC Modules

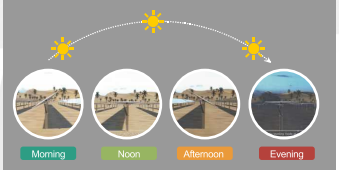
-Simple parts
- Highly pre-assembled
- No welding
- Man-hours saving

- Single-row structure
  No push rod
- Efficient construction
- Cost savings

- Terrain adaptability
- Strong wind protection
- Rain cleaning mode
- Automatic snow removal

Solution of Bifacial PERC Modules +Horizontal single Axis 2XN Independent Tracking System

The perfect match between horizontal single-axis 2XN portrait independent tracking system and bifacial PERC modules geatly improves PV efficiency and increases the PV electricity yield of **10%~26%** . We become the leader of a new generation of high-return PV power station system.



- Bifacial PERC portrait+ Horizontal single-axis 2XN protrait independent tracking system means up to **20%** increase in electricity yield.

- Common monocrystalline + intelligent tracking products means up to **24%** increase in electricity yield.

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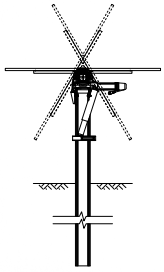
System Parameter	
Tracking System	Independent Horizontal Single-axis Tracker
Capacity	60~69 kW / Array
Tracking Range	±45 ~ ±60 (Customizable)
Area	0.9~1.7 Hectare / MW (from 4m to 8m pitch)
Mechanical Parameter	
Drive System	Slew Drive / Geared DC Motor
Material	Hot Dip Galvanized Steel / Aluminum Alloy / Hot Dig Zn-Al-Mg Coating Steel / Zinc Alloy Coated Steel
PModule Quantity	3-4 Strings (Design for 182/210mm Module)
Slope	Slope North-South <20% (Customizable) / East-West Unlimited
System Dimension	Different as the Module Dimension
Module Type	Structure Adaptable to Available PV Modules Types On Markets
Configuration	1 in Horizontal Portrait
Ground Clearance	>400mm (Customizable)
Foundation	Driven Pile / Concrete
Protection Wind Speed	20m/s(ASCE 7-10)
Survival Wind Speed	50m/s (ASCE 7-10),higher wind load available
Design Code	ASCE7, EN1991, SBC301, MS1553, AS1170, NZS1170, Nch432, NBR6123, GB50009 etc.
Electrical Technical Parameter	
Power Supply	90~260VAC / Self-power Module / PV String Power (1000- 1500VDC)
Control Algorithm	Astronomical Algorithm + Tilt Sensor Close Loop
Tracking Method	Active Tracking Closed-loop Control / Tracking Accuracy ±2°
Control Core	MCU (32-bit)
Functions	Auto Tracking / Strong Wind Protection / Night-time Stow / Rotation Limit Protection / Backtracking / Rain&Snow Mode / Motor Protection / Flooding mode /Manual Control / O&M mode
Motor Voltage	24VDC
Wireless/Wired Network	ZigBee / RS485 / ZigBee+RS485
Operating Temperature	-40℃ ～70℃
Others	Tracker SCADA / Backup Power



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