Trina Tracker

Tracker

Vanguard 2P

Trinasolar

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Vanguard 2P

Single-Row /Multi-motor System

MULTI-FUNCTION MODES IMPROVE RELIABILITY

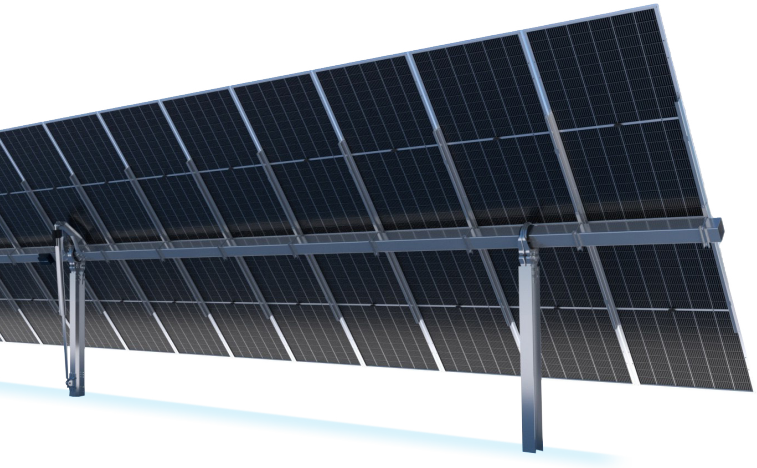
- Multistage wind speed protection mode
- Load current classification determination
- Heavy snow protection mode

SPHERICAL BEARING

- Global patented spherical bearings allow up to 30% angle adjustability.
- Alleviate the damage caused by uneven foundation settlement during operation.
- Release the extra stress caused by the deformation of the tracker system, reduce the load and failure rate of each component.

LOW MOTOR FAILURE RATE

- Overcurrent protection reduces excessive motor consumption
- Lower single motor power consumption



Compatible with Latest Modules

Compatible with with N/P-Type modules up to 700 W+.

Multi-motor System

Better synchronization, better installation and O&M efficiency of driving system.

SuperTrack Smart Tracking Algoritm

Compared with the conventional traking algorithm, **increases energy generation by as much as 8 percent**.

Fewer Piles Per MW

Less pile design for lower BOS in difficult scenarios of piling.

10 5

Warranty period of 10 years for the structural set of elements which comprises the tracker and have been supplied by Trina Solar.

Warranty period of 5 years for commercial components. (Including but not limited to drive system electrical system, bearing set, fasteners, etc.)

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TECHNICAL SPECIFICATIONS

GENERAL FEATURES

Solar tracker type	Single row, Single-Axis
Tracking range	± 55° (110°)
Driver	Multi-linear actuator
Configuration	Two module in portrait (2P). Up to 4 strings per tracker (1500V string)
Solar module supported	Framed
Foundation options	Direct ramming / Pre-drilling + ramming / Micropile / PHC piles
Pile section	W, compatible with IPE, IPEA
Modules attachment	Bolts, Rivets
Piles per MW (690 Wp module)	~112 piles/MW(90 modules/row)
Terrain adaptability	15% W-E, 15 % N-S [1]
Wind and snow loads tolerance	Tailored to site requirement
GCR	≥ 25%
Design wind speed	55m/s (This value depends on project conditions)

STRUCTURE

Material	High Yield Strength Steel
Coating	HDG, Pregalvanized & ZM [2]

CONTROLLER

Controller	Electronic board with microprocessor
Ingress protection marking	IP66
Tracking method	SuperTrack Smart Tracking Algorithm [3] / Conventional Tracking Algorithm
Advanced wind control	Customizable
Anemometer	Cup / Ultrasonic
Night-time stow	Configurable
Communication with the tracker	Wireless option: LoRa / Zigbee
Operating conditions	Altitude < 4000m[4] Temperature: -30~60°C [4]
Sensors	Digital inclinometer
Power consumption	0.2 kW-h/Day
Power supplier	String-powered / Self-powered / AC-powered

[1] N-S: max 15%, for slopes higher than 10% consult with Trina Tracker, E-W: for slopes higher than 10% consult with TrinaTracker.
[2] Standard configuration. Other coating under request
[3] Includes smart tracking algorithm and smart backtracking algorithm.
[4] Standard configuration. Different conditions under request, please consult Trina Tracker.

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