TRACKER Agile™-1P Dual-Row

TrinaTracker

About TrinaTracker

Excellent Bankability
100% bankability from Bloomberg in 5 consecutive years and multiple endorsement from DNV.GL

Multiple Product Line For All Applications
Multiple product line developed by experienced International R&D team for meeting market demands in all application scenariosin all application scenariosin

Superb Reliability and High Quality Total Solution
Leading quality management system and over 20 years product quality control experience in the industry

Efficient Engineering Design Expert
Systematic and high efficient workflow for presales service to guaratee prompt engineering design

Unified Product Delivery Service
Global supply chain layout for core equipments in solar farm (modules and tracker) and unified delivery channel for unique experience in customer service

Two Rows per Tracker

Agile™-1P is a dual-row tracker with one primary slewing drive in one row and one secondary slewing drive in another row, the two slewing drives share one motor and one TCU.

Innovative SuperTrack Technology

According to real-time weather and actual terrain conditions, smart algorithm dynamically optimizes tracking angle, increases receiving radiation and reduces shading loss.

Up to 8% yield gain

More Modules per Tracker

By adopting one in portrait (1P) design, Agile can install up to 60 modules per row.

Compatible with modules up to 670W+

Designed for Challenging Conditions

The Agile™-1P has been designed for sites that have both challenging terrain and high wind conditions.

Up to 20% N-S slope.

Higher Reliability

The two slewing drives in Agile™-1P are connected by a transmission bar with a cardan design that improves the transmission efficiency, also has an optimized stow position and alarm strategy for a safer and more robust structure.

TRINA CLAMP

Trina Clamp is a proprietary product that is quick and easy to use with the 1P configuration, reducing the installation time and costs.

WIND TUNNEL TESTED BY CPP

Detailed wind tunnel test methodology to reproduce the most realistic tracker behavior and analyze the aeroelastic effects that impact tracker structures.

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cere Certificate no. 20776-CER

ISO 9001 ISO 14001 BUREAU VERITAS Certification

DNV·GL

TECHNICAL SPECIFICATIONS

GENERAL FEATURES

Solar tracker type	Horizontal Single-Axis with two rows
Tracking range	±60° (120°)
Driver	Cardan joined slewing drive
Configuration	One module in portrait (1P) up to 2 strings per row (1500 V string)
Solar module supported	Framed
Foundation options	Direct ramming, Pre-drilling + ramming, Micropile and PHC piles
Pile section	W, compatible with IPE, IPEA, HEA and HEB(1)
Modules attachment	Bolts, Rivets, Clamps (frameless)
Piles per MW (550Wp module)	~273 piles/MW(2) (60 modules per row)
(670 Wp module)	~248 piles/MW(2) (54 modules per row)
Terrain adaptability	20% N-S, 10% E-W(3)
Wind and snow loads tolerance	Tailored to site requirement
Rear shading factor	1.27%

STRUCTURE

Material	High Yield Strength Steel
Coating	HDG, Pregalvanized & ZM(4)

ELECTRONIC CONTROLLER SPECIFICATIONS

Controller	Electronic board with microprocessor
Ingress protection marking	IP65
Tracking method	Astronomical algorithms + SuperTrack technology (5)
Advanced wind control	Customizable
Anemometer	Cup / Ultrasonic
Night-time stow	Configurable
Communication with the tracker	Wired option: RS 485 Wireless option: LoRa/Zigbee
Operating conditions	Altitude< 4000 m (6) Temperature: -30°C to 60°C
Sensors	Digital inclinometer
Power (motor drive)	DC motor: 0.15kW (7)
Power supply	Grid connection / String powered / Self-powered

WARRANTY

Structure	10 years
Driver and control components	5 years

(1) C shape piles under request
(2) Depending on layout
(3) N-S: max 20%, for slopes higher than 10% consult with TrinaTracker
E-W: max 10%, for slopes higher than 5% consult with TrinaTracker
(4) Standard configuration. Other coating under request, please consult TrinaTracker
(5) Includes smart tracking algorithm and smart backtracking algorithm
(6) Different conditions under request, please consult TrinaTracker
(7) Depending on external conditions

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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