

# TrinaTracker Agile™ -1P

## Dual-Row



### Compatible with Latest Modules

Compatible with N/P -Type modules up to **650W**.



### 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 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.



### Two Rows per Tracker

Dual-row tracker has one primary slewing drive in one row and one secondary slewing drive in another row. Two slewing drives share one motor and one TCU.



### SuperTrack Smart Tracking Algorithm

Compared with conventional tracking algorithm, increase energy generation by as much as **8%**.

## TRINA CLAMP

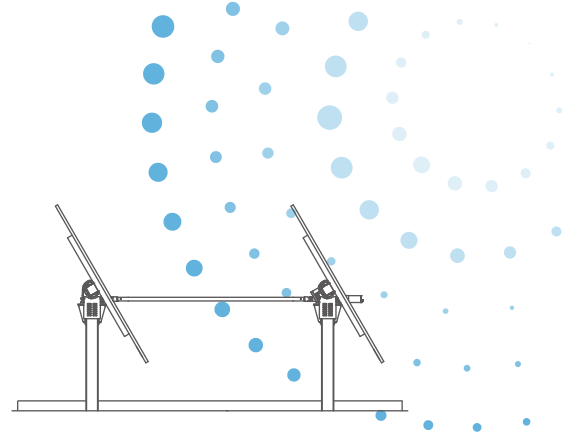
Trina Clamp is a proprietary product that is quick and easy to use with the 1P configuration, reducing the installation time and costs.



## WIND TUNNEL TESTED BY CPP

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





## TECHNICAL SPECIFICATIONS

### GENERAL FEATURES

Solar tracker type	Dual-row Single-Axis
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 <sup>(1)</sup>
Modules attachment	Bolts, Rivets
Piles per MW (690Wp module)	~284 piles/MW <sup>(2)</sup> (48 modules per row)
Terrain adaptability	15% W-E, 15% N-S
Wind and snow loads tolerance	Tailored to site requirement
GCR	≥25%
Design wind speed	55 m/s (This value depends on project conditions)

### STRUCTURE

Material	High Yield Strength Steel
Coating	HDG, Pregalvanizide & ZM <sup>(4)</sup>

### ELECTRONIC CONTROLLER SPECIFICATIONS

Controller	Electronic board with microprocessor
Ingress protection marking	IP65
Tracking method	SuperTrack Smart Tracking Algorithm <sup>(5)</sup> / 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 < 4000 m <sup>(6)</sup> Temperature: -30~60°C
Sensors	Digital inclinometer
Power(motor drive)	DC motor: 0.15 kW <sup>(7)</sup>
Power supply	String-powered / Self-powered / AC-powered

### WARRANTY

Warranty period of 10 years for the structural set of elements which build the tracker up 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.)

- \*1 Optional C piles
- \*2 Depending on layout
- \*3 N-S: max 20%, for slopes higher than 10% consult with TrinaTrack  
E-W: slope higher than 10% 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.  
©2022 Trina Solar Co., Ltd. All rights reserved. Specifications included in this datasheet are subject to change without notice.  
Version number: DT-T-003 C

