# Agile™ 550 -1P TRACKER Dual-Row

Preliminary

## About TrinaTracker

### Flexible solutions adapted to our clients' needs

Customized services and the widest portfolio of products across the entire value chain.

TrinaTracker's highly qualified team and state of the art R&D department offer responsive support to our clients´ needs.

### Quality

TrinaTracker has a worldwide reputation of delivering high quality and reliable solutions. TrinaTracker solutions are designed to provide the best levelized cost of electricity.

### In-house production and a worldwide supply chain network

TrinaTracker's production facility and supply chain network offer the highest quality with reduced lead times ensuring the best client support.

## Multi-Row to Dual-Row Evolution

Comparing with the multi-row tracker, Agile 550-1P combines robust design with improved adaptability for more extreme terrain.

## 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

One-in-portrait configuration (1P), 1500V system dual-row design.

UP TO 120 modules per tracker

## Minimum O&M Costs

Agile 550-1P has single drive system for every two rows. Comparing with multi-row tracker, it reduces the number of key components that need maintenance, such as motors, driver, TCU, etc.

Reducing 26% key components

## Less Installation Time & Costs

One-in-portrait configuration and Tina Clamp reduce the installation time and costs.

65% less installation time

## 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 RWDI

Static load + dynamic load dual test

3D flutter stability analysis and shock response

Evaluation of precise wind load distribution on tracker system.

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# TECHNICAL SPECIFICATIONS

Preliminary

## GENERAL FEATURES

| | |
|---|---|
| Solar tracker type | Horizontal Single-Axis with two rows |
| Tracking range | ±50° (100°) |
| Driver | Linear actuator |
| Configuration | One module in portrait (1P x 60 x 2) |
| Solar module supported | Framed |
| Foundation options | Direct ramming / Pre-drilling / Concrete micro-piling |
| Pile section | C |
| Modules attachment | Bolts, Rivets, Clips and Trina Clamp |
| Piles per MW (550Wp module) | ~303 piles/MW(1) (60 modules pe row) |
| (450Wp module) | ~370 piles/MW(1) (60 modules pe row) |
| Terrain adaptability | 15% N-S, 8% E-W(2) |
| Wind and snow loads tolerance | Tailored to site requirement |
| Rear shading factor | 1.27% |

## STRUCTURE

| | |
|---|---|
| Material | Steel S275 & S355 (EN 10025) or equivalent |
| Coating | HDG, Z275 (G90) and ZM310 (3) |

## ELECTRONIC CONTROLLER SPECIFICATIONS

| | |
|---|---|
| Controller | Electronic board with microprocessor |
| Ingress protection marking | IP65 |
| Tracking method | Astronomical algorithms + SuperTrack technology (4) |
| Advanced wind control | Smart wind gust alarm |
| Anemometer | Electric pulse/Ultrasonic |
| Night-time stow | Configurable |
| Communication with the tracker | Wired option: RS 485<br>Wireless option: LoRa/Zigbee |
| Operating conditions | Altitude < 5000m (5)<br>Temperature: -30°C to 60°C |
| Sensors | Digital inclinometer |
| Power (motor drive) | Linear actuator DC motor: 0.10 kW |
| Power supply | Grid connection / String powered / Self-powered |

## WARRANTY (extendable)

| | |
|---|---|
| Structure | 10 years |
| Driver and control components | 5 years |

(1) Depending on layout
(2) For scenarios beyond the scope of use, please consult TrinaTracker
(3) Standard configuration. Other coating under request
(4) Includes smart tracking algorithm and smart backtracking algorithm
(5) Standard configuration. Different conditions under request

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



Version number: DS-TT-0003

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