

TrinaTracker Vanguard™-1P



Compatible with Larger Modules

Compatible with modules up to **670W+**.



Higher Stability

Bi-damper system improves the tracking system's resistance to wind by **20%**.



Higher Reliability

Optimized torque tube improves the torsional resistance by **29.6%** and the bending resistance by **12.4%**.



Quick Installation Design

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



BILATERAL DAMPER SYSTEM

The bilateral damper system can shorten the tracker oscillation time, thus preventing oscillation. Dynamic responses are reduced and the critical wind speed increased



SPHERICAL BEARING

Global patented spherical bearings with up to 30% angle adjustability, alleviate the damage caused by uneven foundation settlement during operations. The spherical bearings dissipate the extra stress caused by the deformation of the tracker system, thus reduce the load and failure rate of each component.



TECHNICAL SPECIFICATIONS

GENERAL FEATURES

Wind and snow loads tolerance

Design wind speed 55 m/s (This value depends on project conditions)

STRUCTURE

Material High Yield Strength Steel

Coating HDG, Pregalvanizide & ZM⁽³⁾

CONTROLLER

Electronic board with microprocessor

IP65

Customizable

Cup / Ultrasonic

Configurable

Wired option: RS 485

Wireless option: LoRa/Zigbee

Altitude < 4000 m⁽⁵⁾

Temperature: -30~60°C⁽⁵⁾

Digital inclinometer

DC motor: 0.15 kW

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 Depending on layout

*2 For scenarios beyond the scope of use, please consult TrinaTracker

*3 Standard configuration, Other coating under request, please consult TrinaTracker

*4 Includes smart tracking algorithm and smart backtracking algorithm

*5 Standard configuration. Different conditions under request, please consult TrinaTracker