



SuperTrack Smart Tracking Control System

Compared with conventional tracking control system, increase energy generation by up to 3-8%.

OPTIMIZED BEARING DESIGN

- Global patented spherical bearings, up to 30% angle adijustability.
- 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



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.





TECHNICAL SPECIFICATIONS

GENERAL FEATURES	
Solar tracker type	Single row Single-Axis
Tracking range	±55°(110°)
Driver	Multiple linear actuator
Configuration	Two modules 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(670Wp module)	~102 piles/MW ⁽¹⁾ (120 modules per row)
Terrain adaptability	15% N-S ⁽²⁾
Wind and snow loads tolerance	Tailored to site requriement
Rear shading factor	0.8%
Design wind speed	55 m / s (This value depends on project conditions)
STRUCTURE	
Material	High Yield Strength Steel
Coating	HDG, Pregalvanizde & ZM ⁽³⁾
CONTROLLER	
Controller	Electronic board with microprocessor
Ingress protection marking	IP65
Tracking method	$Super Track Smart \ Tracking \ Control \ System^{(4)}/Conventional \ Tracking \ Cont$
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 ⁽⁵⁾
	Temperature: -30 ~60 °C ⁽⁵⁾
Sensors	Digital inclinometer
Power(motor drive)	DC motor: 0.2 kW
Power supply	Grid connection / String powered / Self-powered with battery

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
 *4 Includes smart tracking algorithm and smart backtracking algorithm
 *5 Standard configuration. Different conditions under reques, tplease consult
 TripaTracker TrinaTracker

 ${\tt CAUTION: READ\ SAFETY\ AND\ INSTALLATION\ INSTRUCTIONS\ BEFORE\ USING\ THE\ PRODUCT.}$ ©2022 Trina Solar Co.,Ltd.All rights reserved, Specifications included in this datasheet are subject to change without notice.
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