Nova N1
Smart tracker

With innovative self-locking actuator at each pile and low-tilt stowing technology, Novatracker improves its stability while using less steel. The flexible architecture allows maximum coverage of complicated sites, while reducing structure complexity and lowering project cost

Core Advantages

Lower initial investment increase project IRR

Using 550W solar module, 1MW only need 130 pile foundation, assuming 550W PV module

Higher energy power gain increases project IRR

Increases energy generation by 8-25% and project IRR by 1.5-3%

Excellent terrain adaptability

Adapt to various complex terrains, with unlimited east-west slope and 12° slope tolerance in the north-south direction

Easy to install and maintain

15% less installation time compared with fixed structure; compatible with truck drive-through cleaning O&M

High stability and reliability

Multi-point drive system, each pile forms a triangle support structure, which effectively solves the dynamic instability problem which often occurs in long tracker configuration

Smart tracking and algorithm

Powered by Nengyao AI algorithm, the back Extra 2-6% power gain with back tracking and cloudy diffuse light tracking strategy

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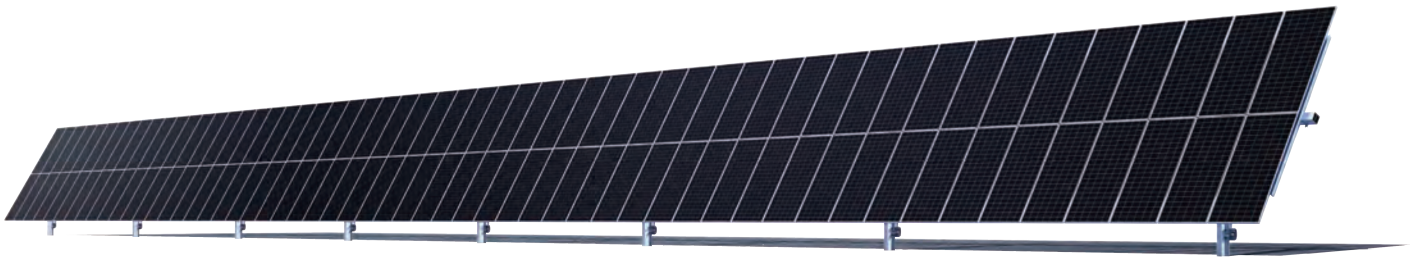
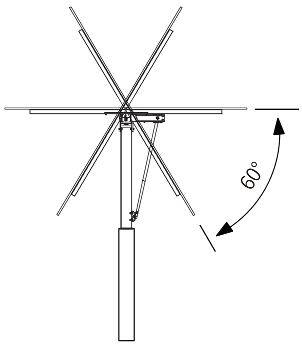
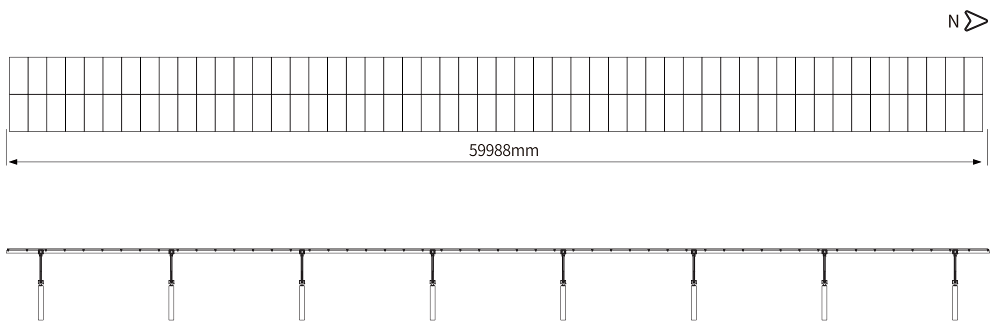




±45/60° Tracking Angle



STRUCTURAL AND ELECTRICAL SPECIFICATIONS	
Tracking Type	Horizontal Single Axis, Single Row Actuation
Tracking Range	±45°, ±60°(Optional)
Maximum Modules per Tracker	120
Key Materials	High-strength low-carbon steel, HDG and pre-galvanized
Foundation Type	Compatible with all Common types (driven pier, concrete, etc.)
Wind Protection	Low-tilt stowing, self-locking at each post, no dampers required
Wind Load (IBC 2016)	40 m/s (90 mph)standard, higher available
Compatible Modules	Most commercially available modules
Module Configuration	Two-in-portrait standard, Optional four-in-landscape
Module Mounting	Pre-galvanized steel strut and stainless steel bolts
Bifacial Compatibility	Bifacial configuration available

DRIVE & CONTROLLER SPECIFICATIONS	
Drive Type	Multi point drive with linear actuators
Motor Type	24V DC Brushed 24VDC
Solar Tracking Algorithm	Astronomical algorithm plus closed-loop control
Communications protocol	Wireless ZigBee or RS485, Modbus
Power	Self-power or AC input

nengyao

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