TerraTrak 1P

Expanded offering, proven reliability

TerraTrak 1P is designed for fewer foundations per MW and reliable performance. Our smart engineering allows for fewer parts and faster installation. The foundation agnostic design ensures reliable results in any terrain. With 80% of the parts shared with TerraTrak 2P, you're ensured proven quality and performance.

Versatile above & below grade

- Compatible with driven piles and ground screws
- A-frame has legs with 36" of adjustability
- Reduce grading and overcome undulating topography

Electrician's favorite tracker

- Easy wire management design for faster wire installation
- Designed to save on skilled labor
- Efficient wire layout requires less materials

Proven reliability from over 500 MWs of experience

- A-frame, legs, gear box, torque tube, controllers and more shared with TerraTrak 2P design
- Tested in the most challenging conditions and terrains

Easier & faster installation

- 30%-50% fewer foundations per MW
- Longer spans between foundations
- 30% fewer parts

Best in class controls & software

Real-time data

down to row level so you always know how your tracker is performing

Minimize weather risks

with on-site weather stations and weather API that predicts bad weather and automatically stows when thresholds are crossed

Remote updates

allow your system to stay up to date with the latest software innovations without requiring a person on site

Machine learning

tells us when a row isn't tracking on its normal path and alerts you immediately, enabling you to fix issues before they affect site performance

Faster troubleshooting

without rolling a truck on site. The admin panel allows users to see inside the project site, view real-time data, and investigate historical data that often leads to identification of the issue

Zone controls

can rotate rows for easier and faster maintenance like mowing, washing, and electrical installation, saving our customer's money and time on O&M and installation

terrasmart™

Specifications

Module orientation	1 module in portrait
Tracker range of motion	100°
Torque tube slope	N/S: Up to 10% (Natural terrain slope could be higher)
Foundation	Driven pile and ground screw
Wind load	105mph per ASCE 7-10, higher wind load available
Snow load	Up to 100 psf
Foundations per MW	200-300
Weather monitoring	Wind speed, snow depth, predictive analytics
Torque tube height	4ft standard, adjustable (4ft min height above grade)
Corrosion	ISO 9223 C2, C3

Drive system	Independent row design / 12 VDC motorized slew drive / zero grid power consumption
Bushings	High impact polymer / lubricant-free, dry bushings
Fasteners	Standard sizes / self-locking / no special tools required
Material coating	HDG, inline, pre-galvanization, powder coating
Adjustable foundations	Flexible installation allows market leading adjustability
Electrical subsystem	Highly advanced BMS hardware & software
Modules	Compatible with large format modules and First Solar Series 7 TR1
Certification	UL3703
Warranty	10 year structural, 5 year on drive and control system, 20 years on foundations, extended terms available

*Optimized means the design is most cost efficient in this configuration (60 modules, 2 string). Higher loads can be accommodated with an engineering review.

80% of the parts are proven on over 500 MWs of installed capacity with our TerraTrak 2P

The same quality and reliable parts:	
A-frame	Bracing
Legs	Network controller
Gear box	Row box
Torque tube	Weather station
Part of the module mounting assembly	Sensors
Self-locking hardware	TerraTrak cloud and dashboard