

# TechTrack



TechTrack single-axis tracker introduces a new era in tracking with dynamic controls, site flexibility, and measurable reductions in total project costs.

## **Superior structural efficiency**

TechTrack's innovative design reduces maximum torque, resulting in a stronger, lighter, more cost-effective tracker.

## **Increased power**

Continuous tables and nominal 120° tracking yield industry accepted power density and generation.

## **Dynamic Design**

TechTrack reacts intelligently to real-time conditions to increase increase generation and reduce risk of harm to the power plant. Dynamic Stabilization™ provides familiar damping characteristics when unlocked, and secures the structure via proven locking technology during design-critical events. The result is a lighter system mass per MW, resulting in lower system costs.

## **Reduced field work**

With distributed drive architecture and strong terrain following capabilities, TechTrack performs flawlessly on even the most challenging sites. Foundation work is minimized by the fewest posts/MW possible, and self-powered, wireless controllers reduce field wiring.

## General

Tracking type	Single-axis horizontal
Nominal tilt range	120°
Module compatibility	All major brands
Module mount	1-high in portrait standard
Array configuration	<ul style="list-style-type: none"><li>• Optimized for 90 module row maximum: 30kWDC per row; 3 strings at 1500VDC</li><li>• Row lengths of 1-3 strings at 1500VDC and 2-5 strings at 1000VDC</li></ul>
Ground Coverage Ratio	Freely configurable (0.33 to 0.5 typical)
Wind + Snow Load Capacity	<ul style="list-style-type: none"><li>• 105 mph/5 psf standard</li><li>• Configurable for high wind (up to 150 mph) and high snow (up to 60 psf)</li><li>• 35 mph stow</li></ul>
Foundation	11 driven piles per 90 module row standard
Dynamic Load Management	Dynamic Stabilization™
Terrain Following	<ul style="list-style-type: none"><li>• Constant grade: 10% maximum (N-S)</li><li>• Change in grade: 2% (N-S)</li></ul>
Materials	Galvanized Steel
Construction	Designed for ease of assembly; no field welding or cutting
Certifications	UL 2703 (bonding and grounding), UL 3703
Warranty	<ul style="list-style-type: none"><li>• Mechanical and structural components - industry acceptable periods and negotiable</li><li>• Controls and actuators - industry acceptable periods and negotiable</li><li>• Extended Warranty + O&amp;M available; pricing upon request</li></ul>

## Actuation

Drive	Self-powered drive with wireless controller: <ul style="list-style-type: none"><li>• Slew drive</li><li>• 24VDC motor</li><li>• LiFePO4 battery</li><li>• Integrated solar panel</li></ul>
Time to Slow or recover	Less than 3 minutes
Field Wiring	No external wiring to the controller for power or communications

## Monitoring and control

On-site Communication	Secure, proprietary mesh network
Sensors	Wind (direction and speed), tilt angle and battery charge included standard Weather

