



# PIONEER TRACKER™

FTC's differentiated 1P single axis-tracker — a simple and elegant solution that reduces construction costs while maximizing long-term reliability and electricity yield.



## DESIGNED FOR RELIABILITY

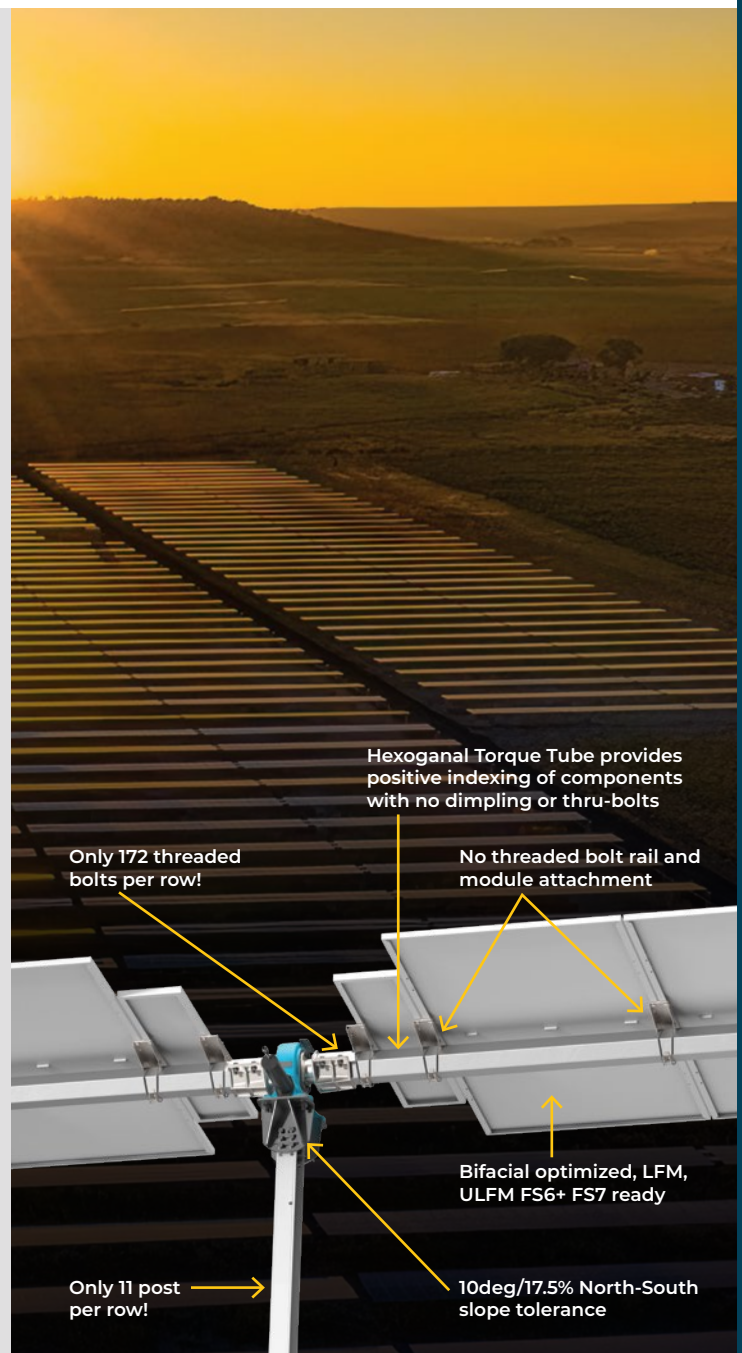
Pioneer capitalizes on our expertise by utilizing the same field-proven drive, control, power, and communications technology found within FTC's Voyager Tracker. Drawing from our extensive experience with over 4.5 GW of installed Voyager systems, Pioneer delivers a dependable and secure platform ensuring seamless operations and impressive up-times.



## LOWEST INSTALLED COST

Pioneer's Python Clip is an unparalleled innovation that eliminates the need for threaded fasteners, torque tube dimpling, or through bolts when attaching rails. Its patented design enables rapid installation of both rails and modules and offers unparalleled flexibility by rendering Pioneer module agnostic, accommodating module changes on the go and facilitating seamless field retrofits. This transformative solution adds efficiency and adaptability to rail systems, setting a new benchmark for the industry.

Furthermore, Pioneer continues to revolutionize solar trackers with its commitment to constructibility and cost-effectiveness. Pioneer achieves an impressive 15% reduction in pile count on many sites, translating to substantial savings in installation costs and mitigating the potential expenses from rework caused by refusals. Minimum connection points and reduced fastener count further lower installed cost.



## PIONEER TRACKER DESIGN SPECIFICATIONS

<b>Wind Speed Configurations</b>	Up to 120mph as per ASCE7
<b>Module Architecture</b>	1 module in portrait orientation
<b>Modules Supported</b>	All framed Mono, Poly, Bifacial, FSLR6, FSLR6+
<b>Module Attachment</b>	4 locking cinch clips
<b>String Architecture</b>	1500V systems: 3 strings per row, up to 30 modules per string 1000V systems: 4 strings per row up to 20 modules per string
<b>Power</b>	Two Power Modules; Onboard Lithium-ion Battery; DC self powered drive system with up to 3-day battery backup
<b>Drive Type</b>	Slew Drives
<b>Posts per Row (typical)</b>	11 posts per row (1 drive, 10 non-drive)
<b>Post Size</b>	W6
<b>Post Type</b>	Driven (primary) with alternative foundation options available
<b>Range of Motion</b>	+/- 52°
<b>Stow Conditions</b>	Wind Stow (0°) Optional Snow Stow (50°) Optional Flood Stow (0°) Optional Hail Stow (50° back to wind)
<b>Backtracking</b>	Individual Row Level (standard), Terrain-Based Backtracking (included with SunPath)
<b>Diffuse Light Capture</b>	Available with optional SunPath
<b>Ground Clearance</b>	300mm (minimum)
<b>Ground Coverage</b>	30-60% GCR supported
<b>Slope Tolerances</b>	10° (17.5%) – North-South; Unlimited – East-West
<b>Snow Load</b>	0psf – 60psf (Higher available upon request)
<b>Operating Temperature</b>	0°C to +60°C (Std), -20°C to +60°C (Opt), -40°C to +60°C (Opt w/AC Power)
<b>Sensor Package</b>	Wind (Std), Snow and Flood Optional
<b>Communication Architecture</b>	Wireless Zigbee Mesh network Row to Row; One Zone Controller for up to 99 rows. Connection to SCADA/DAS through Modbus TCP/IP interface
<b>Certifications</b>	UL 2703, 3703 and IEC EC 62817
<b>Warranty</b>	5 yr drive and control + 10 yr structure standard Additional warranty options available

Conforms to  
UL Standard 3703



Conforms to  
UL Standard 2703



FTC Solar integrates engineering, software, and lean construction to lower installation costs and deploy reliable solar tracking solutions to advanced projects around the world.

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