

NX Horizon

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The world's leading intelligent solar tracker.

Built for performance, resilience, and rapid deployment at global scale.

NX Horizon™ is the world's most-deployed solar tracking system, utilized in approximately 150 GW gigawatts of solar capacity globally. NX Horizon's unrivalled combination of hardware and integrated digital technology is the gold standard for the utility-scale solar segment. It is renowned for its robust design, ease of installation, field-proven weather durability, and delivering industry-leading LCOE.



Highlights

10 years

Global #1 Market Leader

150 GW

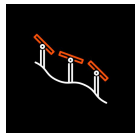
Delivered on 6 Continents

Best-in
Class

Trusted by Top-tier Developers

Up to 4%

Power Gain
with TrueCapture®



Pioneering Independent-row Technology

NX Horizon's patented independent-row, self-powered tracker delivers reliable performance and unmatched flexibility across diverse site conditions.

- **Simple, Robust Hardware**
Self-aligning rails and vibration-proof fasteners enable rapid installation and long-term reliability.
- **Mechanically Balanced Design**
Reduces power needs and enhances durability with a proven drive and control system.
- **Decentralized, Intelligent Architecture**
Supports adaptable layouts, flexible construction sequencing, and advanced functionality with over-the-air updates.



Proven Resilience

NX Horizon is engineered for long-term reliability, with design, testing, and performance proven across hundreds of global sites.

- **Engineered for Extremes**
Strengthened through industry-leading weather analysis, robust structural design, and damping systems to withstand severe weather.
- **Adaptive Protection**
Advanced stow features, including 60° to 75° hail-stow capability, rapid rotation, and UPS backup, safeguard modules even during grid outages.
- **Enhanced Hail Readiness**
Optional Hail Pro™ software and hardware deliver maximum protection in hail-prone regions.
- **Flood-tolerant Design**
Elevated components (1.22m to 1.52 m/4 to 5 ft above grade) and flood-stow functions protect panels in areas that experience flooding.



Optimized for the Lowest LCOE

NX Horizon lowers Levelized Cost of Energy by up to 7% – verified by third parties – combining higher energy yield with reduced capital and operating costs.

- **Faster Installation**
Pre-assembled components, no drive linkages or AC wiring, and self-aligning rails reduce labor, grading, and total project cost.
- **Simplified Maintenance**
Open-row design enables easy maintenance and panel cleaning – cutting vegetation-management costs up to 55% and cleaning up to 73%.
- **Higher Energy Yield**
Optimized for bifacial modules and enhanced by TrueCapture® software, NX Horizon delivers validated annual energy gains across diverse terrains and climactic conditions.



General and Mechanical	
Architecture	Horizontal single-axis, independent row, independently balanced
Configuration	1x module in portrait
Tracking Range of Motion	Options for ±60° or ±50° 60° to 75° stow angles available with Hail Pro
Row Size	Configurable per module type, string length, and site layout
Array Height	Rotation axis elevation, 1.3 to 1.8 m / 4'3" to 5'10"
Drive Type	High accuracy slew gear
Modules Supported	All utility-scale crystalline and thin-film modules
Bifacial Optimization	High-rise mounting rails, bearing and driveline gaps, round torque tube
Structural Connections	Engineered fastening system, vibration-proof
Materials	Galvanized steel; other coatings available
Foundations	Complete range of foundation solutions available
Slope	Up to 15% N-S and 15% E-W
Ground Coverage Ratio (GCR)	No specific limit. Typical range 25-45%
Operating Temperature Range	Self Powered -30°C to 55°C (-22°F to 131°F) AC Powered -40°C to 55°C (-40°F to 131°F) <i>Cold Pak upgrades available</i>
Wind Speed	Configurable up to 240 kph (150 mph) 10m, 3-second gust
Wind Protection	Intelligent wind stowing with symmetric damping system

Electronics and Controls	
Solar Tracking Method	Astronomical algorithm with backtracking standard. TrueCapture™ available for enhanced energy yield
Tracker Controller	Self-Powered Controller (SPC) with integrated inclinometer and UPS
Motor	Brushless DC
Power Supply	Self Powered Standalone smart solar power AC Powered Customer-provided 120-277 VAC circuit
Site-level Control and Communications	Network control units (NCUs) at inverter pads/skids Self-powered weather stations Centralized data hub Encrypted Zigbee wireless mesh communications
Defensive towing Functions	Wind, hail, hurricane, snow, flood, loss of grid power
Operator Interface	NX Navigator™ advanced HMI available, with SCADA integration

Service, Warranty, and Standards	
Tracker Engineering and PE Stamped Design Package	Standard
Foundation Engineering and PE Stamped Design Package	Available
Onsite Construction Support and Commissioning Service	Available
Warranty	10-year structural, 5-year drive and controls standard; extended warranty available
Certifications	UL 3703 / UL 2703 / IEC 62817 / CSA

