THE (R)EVOLUTION IN TRACKER DESIGN CONTINUES

The latest evolution of the DuraTrack HZ v3 features an optimized interface for mounting First Solar thin-film modules. Together, these two powerhouses deliver superior energy performance and reliability to your solar plants.

THE MOST RELIABLE TRACKER UNDER THE SUN
EVOLVES FURTHER FOR SEAMLESS INTEGRATION WITH FIRST SOLAR MODULES.

GREATEST RELIABILITY.

Reducing the number of sensitive components has resulted in the highest operational uptime in the industry. Many other trackers have 166 potential failure points for every 1 in the DuraTrack HZ v3. First Solar modules also have years of proven reliability in harsh environments.

HIGHEST PERFORMANCE.

Combine the high density made possible by the DuraTrack HZ v3 with First Solar’s thin film module performance advantage for winning returns. You can boost production within a tight footprint by taking advantage of up to 6% higher tracker density.

OPTIMIZED INSTALLATION.

With the fewest fasteners of any option, DuraTrack HZ v3 provides a seamless mounting solution for First Solar modules. This streamlines the most labor-intensive step, adding up to big savings. The robust mounting interface is designed and tested to withstand up to 2400 pascals.

ZERO SCHEDULED MAINTENANCE.

The tracker’s gearboxes are sealed and lubricated for life, resulting in zero scheduled maintenance. All tracker rows self-calibrate twice daily, ensuring that each row is always at the optimal tracking angle. Uninterrupted module rows with First Solar Series 6 create a robot-ready design permitting autonomous module cleaning.

ARRAY TECHNOLOGIES, INC.

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Array Technologies made history in 2013 with the successful integration of First Solar thin-film modules on single-axis solar trackers at the 265 MW Mt. Signal Solar. The largest thin-film solar tracking facility in North America at the time, it boasts more than three million First Solar thin-film modules mounted on a DuraTrack HZ single-axis tracking system.

THE ARRAY ADVANTAGE

Array Technologies is the worldwide leader in tracking solutions for utility and commercial solar electric generation systems, with multiple gigawatts across the globe. After more than 28 years in the industry, Array’s innovations in solar tracking continue to provide the best levelized cost of electricity through reliable, easy to install and maintain systems. Array Technologies’ solutions are engineered in the USA.

DuraTrack HZ v3 with First Solar

OUR EXPERIENCE. YOUR ADVANTAGE.

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ELECTRONIC CONTROLLER FEATURES/SPECIFICATIONS

Solar Tracking Method
- Algorithm with GPS input

Control Electronics
- MCU plus Central Controller

Data Feed
- MODBUS over Ethernet to SCADA system

Night-time Stow
- Yes

Tracking Accuracy
- ± 2° standard, field adjustable

Backtracking
- Yes, optional. Adjust to optimize production.

INSTALLATION, OPERATION & MAINTENANCE

PE Stamped Structural Calculations & Drawings
- Yes

On-site Training & System Commissioning
- Yes

Connection Type
- Fully bolted connections, no welding

In-field Fabrication Required
- No

Dry Slide Bearings & Articulating Driveline Connections
- No lubrication required

Scheduled Maintenance
- None required

Module Cleaning Compatibility
- Robotic, Tractor, Manual

GENERAL

Annual Power Consumption (kWh per 1 MW)
- 400 kWh per MW per year, estimated

Land Area Required per 1 MW
- Approx. 5.75 – 6.5 acres per MWDC @ 33% GCR (site and design specific)

Energy Gain vs. Fixed-Tilt
- Up to 25%, site specific

Warranty
- 10 year structural, 5 year drive & control components

Patent Numbers
- US patent 8,459,249
- US patent 9,581,678 B2 and patents pending

Codes and Standards
- UL Certified (3703 & 2703); IEC 62817

Array Technologies Inc. reserves the right to make specification changes without notice.