



**DuraTrack™ HZ-R**  
Reliathon Ready

**ABOUT  
ARRAY TECHNOLOGIES, INC.**

Array Technologies, Inc. is the leading manufacturer of cost-effective, reliable and robust solar tracking and racking systems for utility scale, commercial and residential customers. Headquartered in Albuquerque, NM for over twenty years, Array provides its customers with unequaled solar tracking and racking expertise. Array's mounting systems are manufactured in the USA and shipped worldwide.

**Array Technologies, Inc.**

- 3901 Midway Place NE  
Albuquerque, NM 87109 USA
- 505.881.7567
- 855.TRACKPV (872.2578)
- 505.881.7572
- utilitiesales@arraytechinc.com
- commercialsales@arraytechinc.com
- www.arraytechinc.com

Array Technologies and Suntech have formed an alliance to expedite the development of utility-scale solar plants:

## The Reliathon Utility Solar Platform

This innovative, fully integrated solution provides utility-scale system developers a comprehensive reduction in costs.



**SMART DESIGN**

Upon mounting to the DuraTrackHZ structure, Reliathon modules interlock together and provide integral, automatic module grounding—eliminating the ground wire installation step. And, the low-profile DuraTrack design makes installation and maintenance simple and fast.

**QUICKEST DEPLOYMENT**

DuraTrack's articulating drive-line connections immensely relax installation tolerances while accommodating installation on undulating terrain and irregular site boundaries. And, Reliathon modules self-align, for quick installation with one U-bolt.

**RELIABLE AND ROBUST**

The DuraTrack's distinctive gear drive system does not transmit wind forces through the driveline, resulting in an uncomplicated, robust solution that stands up to almost any weather condition. Array Technologies offers a standard 10-year product warranty for Reliathon-optimized trackers.

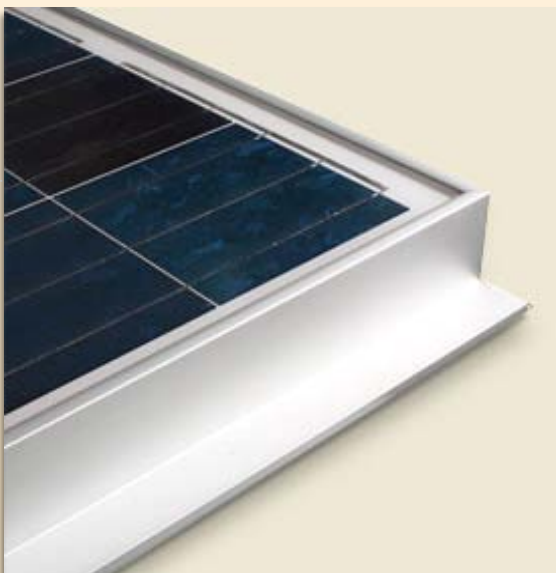
**SIMPLICITY INCREASES OVERALL PAYBACK**

The Reliathon Platform—with the DuraTrack tracking system and Suntech's Reliathon modules—results in an extremely efficient and productive system that is easy to install and uses only 2 motors per MW.

The marriage of the DuraTrack with Reliathon modules makes an extremely efficient and productive system that is easy to install and maintain.



The Reliathon module self-aligns to the DuraTrack's torque tube and installs easily with one U-bolt.



Reliathon modules interlock together, and provide integral, automatic module grounding.

**STRUCTURAL & MECHANICAL FEATURES/SPECIFICATIONS**

Tracking Type	Horizontal Single Axis
Tilt Angle	0°
kW per Drive Motor	Up to 350 kW DC
Drive Type	Gear Drive
Motor Type	1/15 HP, 24 VDC Nominal
Motors per 1 MW	2-4 Motors
East-West/North-South Dimensions	Site/module specific
Array Height	48" standard, adjustable
Recommended Ground Cover Ratio (GCR)	33% standard, flexible
Modules Supported	Suntech Reliathon™
Tracking Range of Motion	90°
Module Configuration	Single module in portrait
Module Attachment	Reliathon™ modules self-align and attach with one U-bolt
Materials	HDG, high-strength steel & anodized aluminum
Allowable Wind Load	Tailored to site requirements; up to IBC 140 MPH, 3-second gust exposure C
Wind Protection	None required, safety windstow included

**ELECTRONIC CONTROLLER FEATURES/SPECIFICATIONS**

Wind Stow Device	Yes
Wind Stow Device Type	Array Technologies proprietary
Solar Tracking Method	Algorithm with GPS input
Control Electronics	MCU plus Central Controller
Data Feed	MODBUS over Ethernet to SCADA system
Nighttime Stow	Yes
Tracking Accuracy	+ or - 2° standard, field adjustable
Backtracking	Yes

**INSTALLATION, OPERATION & MAINTENANCE**

PE Stamped Structural Calculations and Drawings	Yes
Onsite System Commissioning	Yes
Welding Required	Fillet welds only
In-field Fabrication Required	No
Dry-Slide Bearings & Articulating Drive-Line Connections	No lube required
Gear Drives	Grease every 2 years

**GENERAL**

Annual Power Consumption (kWh per 1 MW)	350 kWh per MW per year, estimated
Land Area Required Per 1 MW	Approx. 5-6 acres per MW @ 33% GCR (site and design specific)
Energy Gain vs. Fixed-Tilt	Up to 25%, site specific
Warranty	5 years parts only, 10 years extended available
Made in the USA	Yes