



# KEYLIOS® TRACKER

A revolutionary, all terrain all weather single axis tracker

Example  
of configuration :

**39m long  
tracker  
400Wp  
modules**

**31,2 kW**  
per tracker

**64**  
foundations  
per MW  
(128 piles  
or 64  
Concrete  
blocks)



## LATTICE 2V STRUCTURE FOR ROBUSTNESS

- Highly resilient design, insensitive to destructive aerodynamic phenomena
- Capacity to operate under strong winds
- 2 rows of modules in portrait for maximum power density
- Module integrity protected thanks to high torsional stiffness of the structure



## 2 FOUNDATIONS PER TRACKER ONLY FOR MINIMUM FOOTPRINT

- Adaptable to difficult terrains not suitable for traditional trackers
- Unsettled grounds, harsh topography, polluted soils, strong slopes...
- Perfectly suited for superficial foundations (concrete blocks)



## HIGH MODULARITY FOR PROJECT TAILORED SOLUTION

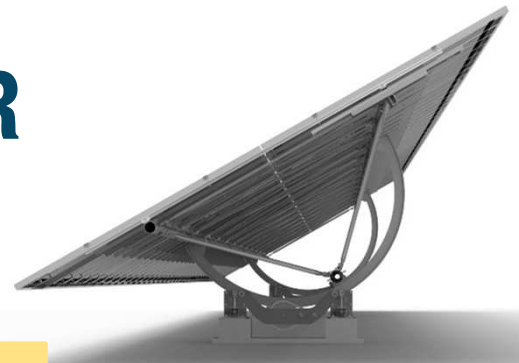
- Adaptable length (34 to 48 meters) to match electrical string requirement
- Independent tables for optimized layout and maximised output
- Easy assembly: all parts can be mounted at reachable heights
- Pre-assembled elements in option for lower assembly cost



## MAXIMUM RELIABILITY FOR MINIMUM MAINTENANCE

- Self-powered tracker, wireless communication for fewer cables and breakdowns
- Proprietary SCADA for an optimised predictive maintenance
- Wider aisles and single row design for easier access and cleaning

# KEYLIOS® TRACKER



## Characteristics

General characteristics		Installation and maintenance	
Tracker type	Double row horizontal one axis tracker	Module fastener options	Bolts - Rivets Araymond Powar Cinch
Tracking range	+/- 60°	Mechanical assemblies	Universal fasteners Hexagonal lock nuts with nylon insert available as an option, for lower OPEX
Drive	24V DC motor controlled by an integrated control command controller and powered by its own module	Reception and commissioning	Possible reception before module assembly. Fast commissioning with remote NST support.
Capacity	Typically 31,2kW per tracker for a 2V39 configuration with 400Wp modules (higher length upon request)	Rotating parts	Maintenance free rollers
String voltage	1000V or 1500V	Drive	Gear motor with high-performance oil
Intelligent stow	Stow position on high winds. Maximum wind speeds configurable per tilt to reach maximum productivity at best structural costs.	Control Command	
Materials used	As per client's specifications	Tracker control	One control command module and one drive train per tracker
Conformity	CE – Eurocodes - IEC 62817 (in progress ) (if other requirements, please contact us)	Communications	Zigbee wireless mesh network. No data cabling to the tracker required.
Typical dimensions	Typical Height at 0°: 2.3 m; width 4 m; length 34 to 48 m	Weather station	Wind as standard. Snow as an option
Earthing	The structure serves as an equipotential bonding grid. There is no need to attach braided copper straps to the modules.	Monitoring process	Astronomical algorithm
Adaptability to field conditions		Network architecture	One network station per 200 trackers
Energy consumption	Completely autonomous structure, no cabling required.	Interface	SCADA with web interface optimised for easy and intuitive remote access
Coverage ratio (GCR)	≥35%	Backtracking	Yes
Piles per MW	≈128 (depending on modules)	Warranty and service	
Concrete blocs option	≈64 blocs/MW (depending on modules)	Warranty	10 years for the structure and control module; 5 years for the actuators and mechanisms.
Permissible slope	5% as standard (up to 15% upon request)	Training	Training courses upon request, within our facilities or on site.
Permissible types of foundation	Rammed piles, drilled piles, screw piles, prefabricated concrete blocks	On-site supervision	Upon request
Maximum permissible wind speed	Tracking: according to project specifications Safety position: according to Eurocodes		

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