Projects Exosun

ArcelorMittal

Technical datasheet

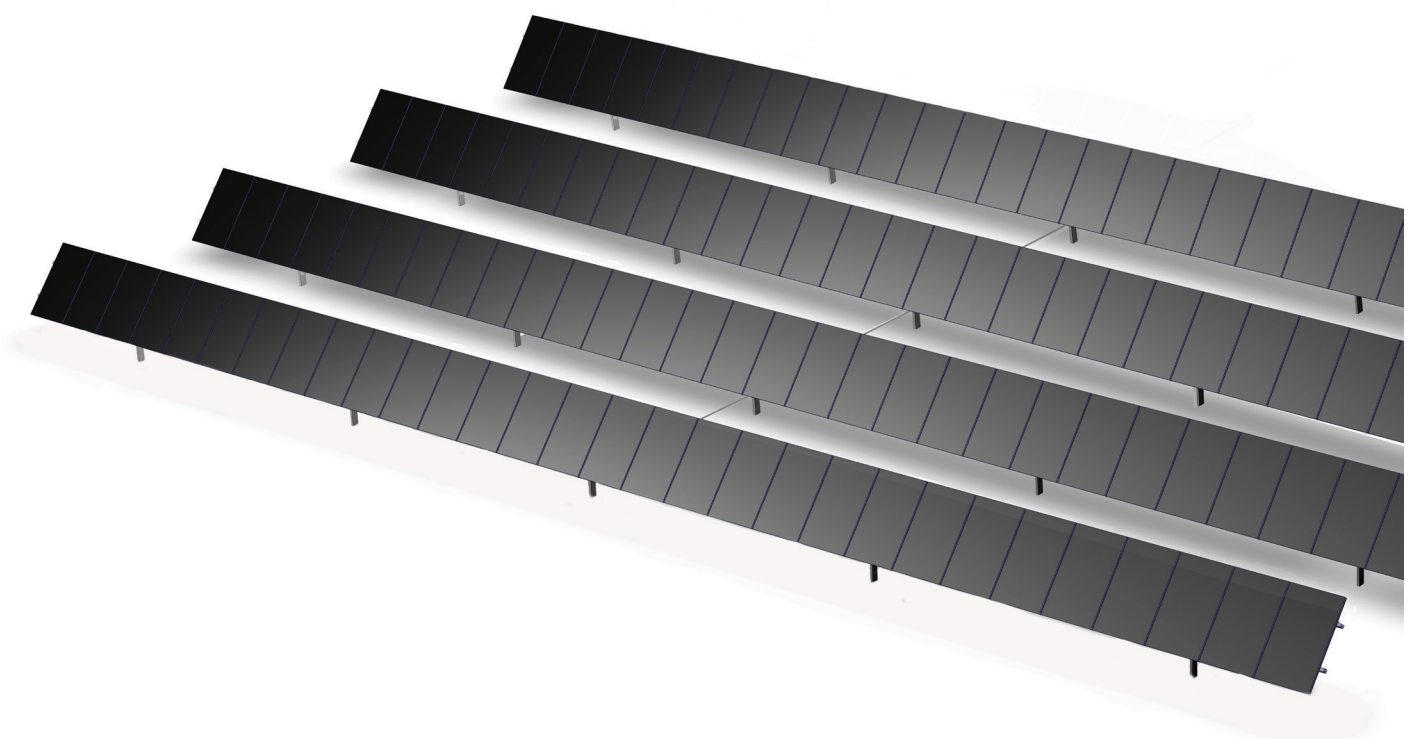
Single-axis tracker for First Solar series 6 modules

exotrack® HZ

Single-axis tracker for First Solar series 6 modules

First Solar®

At Projects Exosun, our solar trackers are the result of perfectionist engineering and years of hands-on experience. Flawless in their simplicity, robustness, and flexibility, our trackers are the smartest solution on the market for smooth and fast project deployment, high solar performance and profits.



Highest flexibility for flowing topography

- Follows hilly landscapes without land grading.
- 10% slope tolerances in all directions & between tables.
- Short tables for better adaptation and layout flexibility.

Unrivalled simplicity for smooth and fast installation

- Highest ramming and installation tolerances.
- Mechanical installation less than 250 man-hours/MW (without FS module and installation).
- Fast deployment and increased safety: no specific machine needed thanks to lightweight parts.

Reliability: avoiding unexpected OPEX

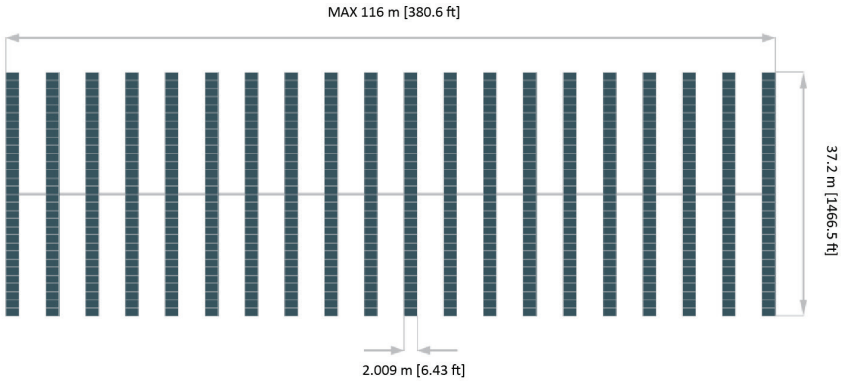
- Balanced design, structural stiffness, and high quality materials.
- Complete lubrication-free solution, no on-site yearly greasing.
- Limited maintenance with 1 controller and 0 sensors for 12 MW.

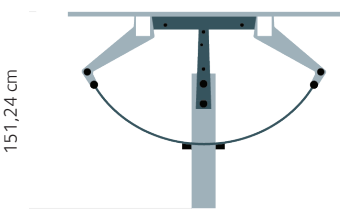
	1500 V (1x30)
General characteristics	
Tracked area	1498 m² (16 124 ft²)
Motors per MWp*	4
Power per tracker (117.5 Wp modules)	249 kWp
Rows per tracker*	Up to 20
Strings per row	5 strings of 6 modules
Daily tracking	± 50°
Piles per MW*	402
Foundation installation tolerances	xy : ± 4 cm (1.6 in), tilt ± 2°, twist ± 8°, z : ± 4 cm (1.6 in)
Module configuration	1 in portrait (1*30)
Module fixation	Proprietary self grounded clamp
Slope acceptance	Up to 10% between tables. Undulating slopes accepted
Ground coverage ratio*	From 30 to 50%
Materials and dimensions	
Structure	Maintenance-free movement transmission HDG / Galvanized steel / Stainless steel / Composite / Aluminum
DC string management	Cable trays or raceways or FS trunk bus
Electromechanical characteristics and automatic device	
Drive type	Brushless gear motor, 3 phases, 400 VAC (CE) or 460 VAC (UL)
Power consumption*	± 500 kWh/MWp/year (including stand-by mode)
Control system architecture	Exobox centralized piloting system. Individualized tracking program Up to 1 per 12 MWp
Remote control and scada interface	
Remote control	Via ExoPortal - web application -
Monitoring and data access	Via OPC server or Modbus TCP
Wind resistance* Eurocodes (ASCE 7-10)	
In any position	Up to 100 km/h (62 mph)
In stow position	Up to 168 km/h (105 mph) with special exterior tables
Warranties	
Warranties	5 years on product - 10 years on structure Optional warranties available -20 years extensions

* Project specific

Other configurations according to site specificities

First Solar
Series 6
1500V
1x30





More information here