FS Metallica II

INTEGRATED TRACKER SOLUTION OPTIMIZED FOR BIFACIAL MODULES

FuturaSun® anticipate tomorrow

KEY BENEFITS AND FEATURES

- ±60° horizontal single-axis tracking: optimized energy yield and low tilt stow angle reducing wind exposure
- ≤2° tracking accuracy with smart closed-loop tilt sensor control
- 9 post per system with 4x1.500V-strings of solar modules
- Optimized for bifacial modules
- High adaptability to complex terrain: N-S slopes up to 20%, unlimited E-W orientation
- Advanced synchronous multi-point drive system with slewing technology

Structural Stability and Weather Resistance

FS Metallica II ensures high stability across its full ±60° tracking range with a synchronous multi-point drive and reinforced structure. The low tilt horizontal stow position allows higher stow wind speed resistance, ensuring reliable operation even in coastal, high-wind, and seismic environments.

Smart Adaptability and Efficient Wireless Control

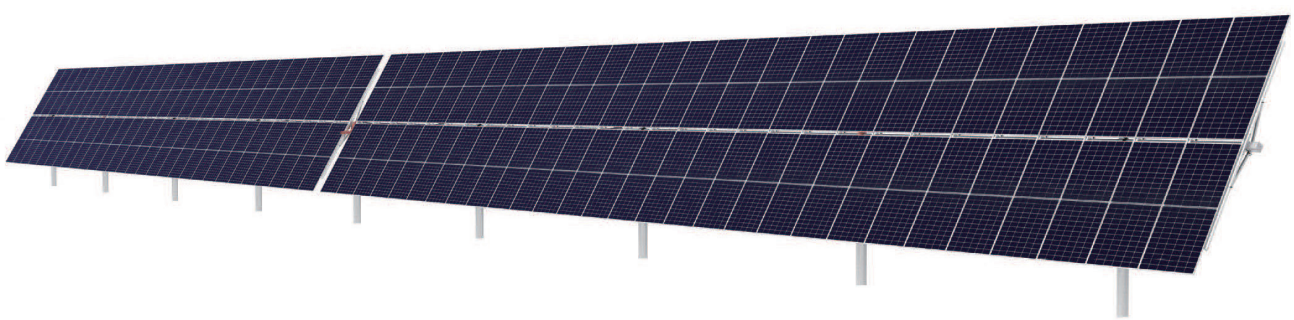
FS Metallica II combines long-range wireless communication with low power consumption to optimize tracker performance in every environment. Advanced tracking algorithms and ≤2° accuracy maximize solar capture, while the adaptable single-axis design supports complex terrains and reduces O&M requirements, improving plant efficiency.

Tracker Specifications

Tracker Type	Independent horizontal single-axis tracker
Tracking Range	± 60°
Drive Type	Slew drive/Synchronomous multi-point design
Modules per Tracker	Up to 120 modules per tracker
System Voltage	1000 - 1500 VDC
Foundation Options	Ramming/Pre-drilling/Concrete Pillars
Structure Material	Hot dipped galvanized steel/Pre-galvanized steel/Zn-Al-Mg coated steel
Daily energy Consumption	Typical 0.04 kWh/day
Standard Design Wind Speed	156 mph (70 m/s) per ASCE7-10, higher wind load available
Modules Supported	All commercially available modules
Operation Temperature Range	-30°C to 60°C
Tracker N-S Length Limitation	≤95m
Terrain Adaption	Up to 20% N-S Slope

Tracker Controller Specifications

Control Algorithm	Astronomical algorithms & tilt sensor closed-loop control
Tracking Accuracy	≤ 2°
Backtracking	Support terrain adaptive intelligent algorithm
Communication Options	LoRa wireless/RS 485 cable
Other Special Modes	Snow and hail protection
Controller's Power Supply	Default string power supply, with optional AC power supply as option
Flood Mode	Tracker flat (optional)
Snow Mode	Tracker at max tilt (optional)
Wind Stow Mode	Low tilt stow angle



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