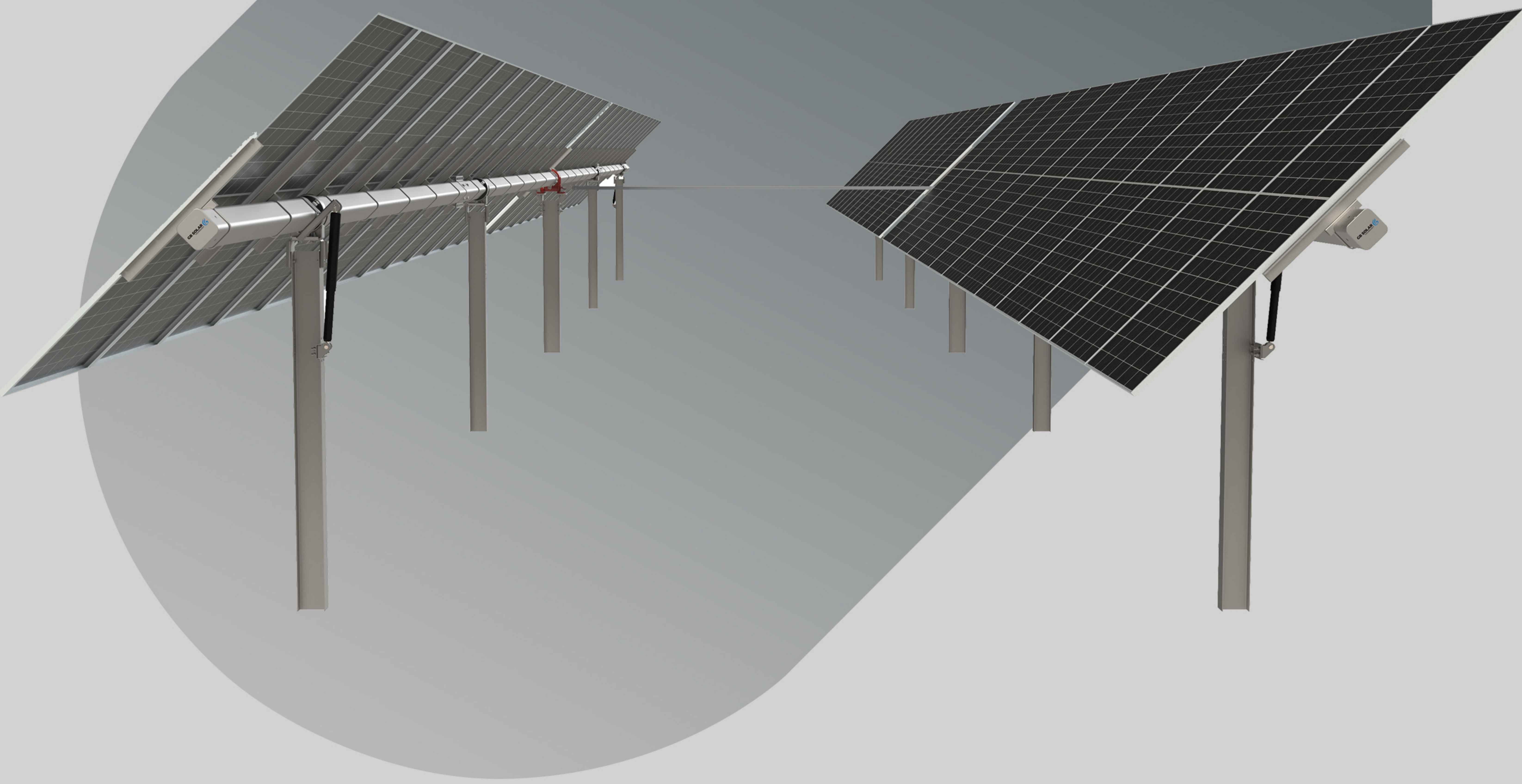


Zenith-SYN

Dual-Row Intelligent Linked



SYNCHRONICITY

A dual-row shared-drive structure combined with a drive-shaft mechanical linkage enables synchronized and coordinated tracking of two rows. This improves transmission consistency and operational smoothness, and helps reduce overall BOS costs.

ADAPTABILITY

A cardan joint transmission structure flexibly accommodates terrain undulations in both north-south and east-west directions, supporting installation on slopes up to 15%. Improves installation adaptability and site compatibility to meet project needs in complex terrain.

DEPENDABILITY

Mechanical transmission with a self-locking design enhances overall rigidity and torsional resistance. Maintains structural stability under challenging conditions such as strong winds, ensuring system safety and long-term reliability.

SMART O&M

Mobile app-based intelligent commissioning and convenient management enable faster parameter setup, clearer status monitoring, and more efficient on-site maintenance. Improves commissioning efficiency and O&M response speed, optimizing the overall O&M experience.

● Structural Parameters

System Type	Double-row linked single-axis tracking system
Tracking Angle	±60°
Drive Mechanism	Rotary Drive
Number of Single-Row Modules	Up to 90 modules
Module Type	Compatible with all modules
Terrain Adaptability	N-S slope 20% Max. , E-W unrestricted
Pile Foundation Type	Ramming pile/Concrete pile/PHC
Structural Material	HDG/ZAM/Pre-galvanized
System Voltage	300VDC ~ 1500VDC
Operating Ambient Temperature	-30℃ ~ +60℃
Wind Resistance Design	Up to 60m/s

● Control Parameters

Tracking Method	Astronomical Algorithm + Closed-Loop Control
Tracking Accuracy	≤2°
Communication Method	Zigbee Wireless / RS485 Wired
Power Supply Method	String Power Extraction / AC Power Supply
Daily System Power Consumption	Approx 0.05kWh/Day
Protection Rating	IP65
Anti-Shadow Tracking	Yes
Night Return Mode	Yes
High Wind Protection Mode	Protection angle is adjustable.
Heavy Snow Mode	Optional
Flood Mode	Optional

