

Horizontal Single - Axis Electrical Solar Tracker

M - TRC 860



TECHNICAL FEATURES

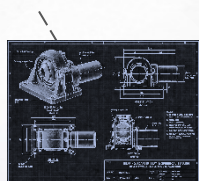
Tracking type	1P Single-Axis Independent Tracking System
Module Quantity per row	Up to 120 modules (4 strings)
Driving System	Electrical multi-point Slew Drives
Design Wind Speed	65 m/s (ASCE 7-10), adjustable based on project
Tracking Angle Range, Accuracy	±60°
Pile Foundation Type	PHC Pile / Cast-in / Direct Ramming / micro-hole+Ramming
Posts Section Type	H-type for Drive Post, H/C-type for Side Post
Number of Posts per MW	190-240 according to layout
Structural Material	S350-S550
Anti-corrosion Coating	Hot-dip Galvanizing / Zinc-Aluminum-Magnesium Coating
Terrain Adaptation	North-South slope 20%, East-West slope unlimited
System Voltage	300VDC-1500VDC
Power Supply Method	String Power Supply /Grid Power
Electrical Connection	1 Master Controller + Max 3 Slave Controller
Daily Power Consumption	0.04kWh
Operating Temperature	-40°C~+60°C
Control Modes	Backtracking, Heavy Rain, Heavy Snow, Strong Wind, Flood, and Farm Mode
Stow Position	Low angle (based on CPP/RWDI)
Heavy Snow Protection Mode	Maximum Tracker Tilt Angle (optional)
Rainy Day Mode	Adjust tracker angle based on solar irradiance (optional)
Control Algorithm	Astronomical Algorithm+Tilt Sensor Closed-loop+AI Intelligent Algorithm
Communication Interface	LoRa/Zigbee Wireless Communication, RS485 cable
Product Certification	ETL/TUV/CE/UL

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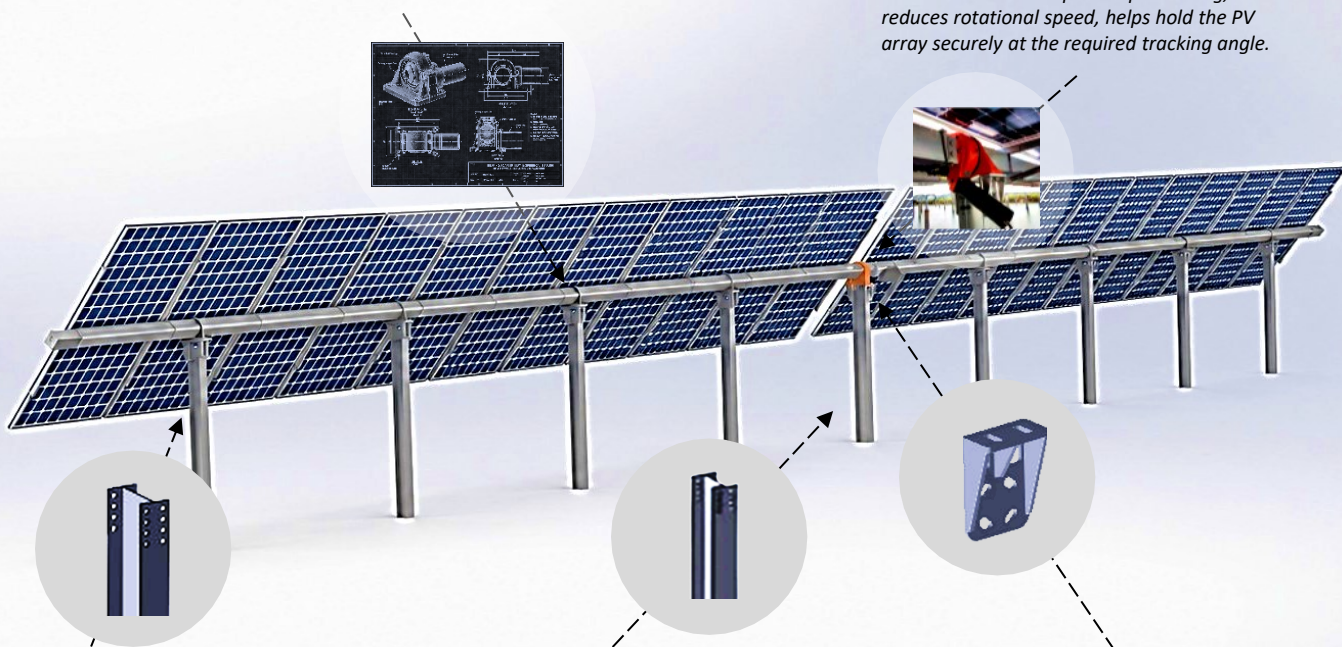
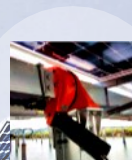
Bearing Adapter Seat & Spherical Bearing

Support the rotating torque tube and allow smooth rotation and limited angular self-alignment. They accommodate minor structural or installation misalignments, reduce friction and stress, and transfer tracker loads to the supporting post.



Slew Drive

Converts electric motor's output into controlled, high-torque rotational movement. Provides precise positioning, reduces rotational speed, helps hold the PV array securely at the required tracking angle.



Simple Post

Carries vertical and lateral loads, supports the torque tube through bearing or bushing, maintains alignment, allows the tube to rotate freely.

Driver Post

Structural support. Carries the electric drive mechanism and transfers rotational force to the torque tube. Anchors the drive assembly, withstands resulting mechanical loads, initiates controlled rotation positioning the PV modules toward the sun.

Motor Base

Structural mounting element. Supports and positions electric motor and drive unit on the Driver Post. Maintains alignment with the rotating mechanism. Transfers motor-generated forces safely into the tracker structure.

- Enterprise established in 1969.
- 2008 - Introduction of fixed mounting structures for PV panels.
- 2019 - Specialization in Single-Axis Tracker design.
- Today more than 120 MW tracker projects completed.
- Up to 25% more energy production compared to a fixed PV installation of equal capacity.
- Design on customer's requirements.
- More power generation - solar tracking algorithm with an additional 1-3% power generation potential.