

OMCO SOLAR®



OMCO Origin™

FACTORY-DIRECT TRACKERS

One-In-Portrait

- ADJUSTABLE BEARINGS = FASTER INSTALLATION AND COMPENSATION FOR POST MISALIGNMENT
- 4 STRINGS = FEWER MOTORS AND CONTROLLERS PER MW
- WIDEST RANGE OF MOTION = HIGHEST KWH PRODUCTION
- BALANCED TRACKER = LOW ENERGY CONSUMPTION & LONG, STRAIGHT ROWS
- HIGH DOMESTIC CONTENT - MADE BY OMCO SOLAR IN OUR 6 US MANUFACTURING PLANTS
- ADDED STRUCTURE FOR LARGE FORM FACTOR MODULES = REDUCED RISK OF MICRO-CRACKS

Tracking Technology	Single-row, horizontal, balanced, single-axis
Tracking Range	120°
Modules and Configurations	1-in-portrait Monofacial and bifacial modules Framed silicon module – Up to 120 per tracker First Solar Series 6 & Series 7 modules – Up to 96 per tracker
Dimensions	Height – Modules at 60° – 2.4 m (7.8 feet) Width – Modules horizontal – 2.0 m (6.5 feet) Length – Up to 122 m (400 feet)
Foundations	Driven C posts – OMCO produced, lower cost, faster lead time Driven I or W posts – OMCO sourced OMCO Ground Screw Foundations
Structural Materials	Galvanized steel per ASTM A653
Drive	1 slew drive per tracker 20 drives per MW (typical)
Motor	1 24-volt dc motor per tracker 20 motors per MW (typical)
Control System	1 tracker control unit mounted to each tracker with internal inclinometer DC with 30 or 60-watt module and long-life LiFePO ₄ battery AC up to 264 vac input 1 network controller per 100 – 150 trackers (wireless) 1 or more meteorological stations per site 1 remote access unit per site – datalogger and modem
Communication	Network controller to tracker controllers: MODBUS over Zigbee wireless Network controller to SCADA: MODBUS TCP/IP over ethernet Cloud app available for remote monitoring and predictive maintenance
Step Size	1°
Tracking Algorithm	Based on United States Naval Observatory Solar Position Algorithm Tracking accuracy $\pm 2^\circ$
Backtracking	Optional – Optimized for each tracker based on topography
Night Stow	Yes
Wind Stow	Yes
Snow Stow	Yes
Snow Sensor	Optional
Flood Sensor	Optional
Bearings	Self-lubricating, long-life polymer blend wear surfaces Adjustable in multiple dimensions to take up post misalignment Delivered fully assembled from the OMCO Solar factory
North-South Slopes	Up to 15%
Installation	No welding or cutting in the field
Compliance	UL3703, ASCE7



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