



Alamo 1 - 50 MW Project
Dual & Single-Axis Trackers
San Antonio, TX



ABOUT

ERCAM Trackers is the industry leader in design, manufacturing, installing and maintaining Dual-Axis Solar Trackers. ERCAM Trackers has recently relocated to San Antonio, TX as part of a joint venture between Energía ERCAM and OCI Group (Seoul, South Korea) to supply economical, Dual-Axis Trackers which will generate 500 MW of Solar Photovoltaic (PV) power in the U.S. ALAMO 1 is the first 50 MW and will be on-line first quarter of 2014. ERCAM will then produce up to 13 MW of tracker every month thereafter.

HOLISTIC DESIGN

Our trackers use a patented dual-axis tracking algorithm which increases the energy output by 20 to 30 percent over fixed systems. Built with corrosion-resistant galvanized steel, our trackers withstand all weather conditions. Construction is simple, with no welding, cranes, or elevated work required.

FLEXIBLE DESIGN

The hydraulic drive system means there is no obstructing crosslinkage between rows, so drive-thru access for cleaning and vegetation control is much faster. Also, no linkage means E-W gradients can be accommodated: more flexibility, reduced cost.

UNIQUE DESIGN

Our Dual-Axis Tracker is a simple modification of our horizontal single-axis tracker. As such, it is low to the ground, reducing visual impact, wind loads, and construction and maintenance costs yielding lower lifecycle LCOE.

ERCAM'S PATENTED DUAL-AXIS TRACKER is simple, durable, efficient and requires little maintenance.



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Dual Axis Tracker Technical Data Sheet

STRUCTURAL & MECHANICAL FEATURES/SPECIFICATIONS

Tracking Type	Dual Axis
kW per Drive Motor	48 Kw DC
Drive Type	Pump & Hydraulic Actuator
Motor Type	Single Phase 115v 6.9 Amp.
Motors per 1 MW	22
East-West/North-South Dimensions	N-S, 52 m / E-W, 2 m (For a typical configuration of 40 panels per tracker)
Array Height	1.5 - 2 m
Recommended Ground Cover Ratio (GCR)	< 50%
Modules Supported	Most commercially available
Tracking Range of Motion	G1 $\pm 55^\circ$ G2 $\pm 35^\circ$
Module Configuration	40 Frames per Tracker Customizable to adapt to the req. no. of panels per string)
Module Attachment	Aluminum
Materials	Steel A-36 w/Hot-Dip Galvanized
Allowable Wind Load	Minimum 90 MPH *up to local requirements
Wind Protection	Standard 60 km/hr (37.3 mph)



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ELECTRONIC CONTROLLER FEATURES/SPECIFICATIONS

Wind Stow Device	Yes
Wind Stow Device Type	Anemometer
Solar Tracking Method	Astrological
Control Electronics	TCP/IP PLC
Data Feed	ERCAMBUS
Nighttime Stow	Yes
Tracking Accuracy	$\pm 2^\circ$
Back Tracking	Yes

INSTALLATION, OPERATION & MAINTENANCE

PE Stamped Structural Calculations & Drawings	Yes
Onsite System Commissioning	Yes
Welding Required	No
In-field Fabrication Required	No
Dry Slide Bearings & Articulating Drive-Line Connections	Antifricition PEHD elements
Gear Drives	No

GENERAL

Annual Power Consumption (kWh per 1 MW)	< 10,000 kWh
Land Area Required Per 1 MW	5-8 acres
Energy Gain vs. Fixed Tilt	Up to 45%
Warranty	Up to 3 years, extendable under contract
Made in USA	Yes



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