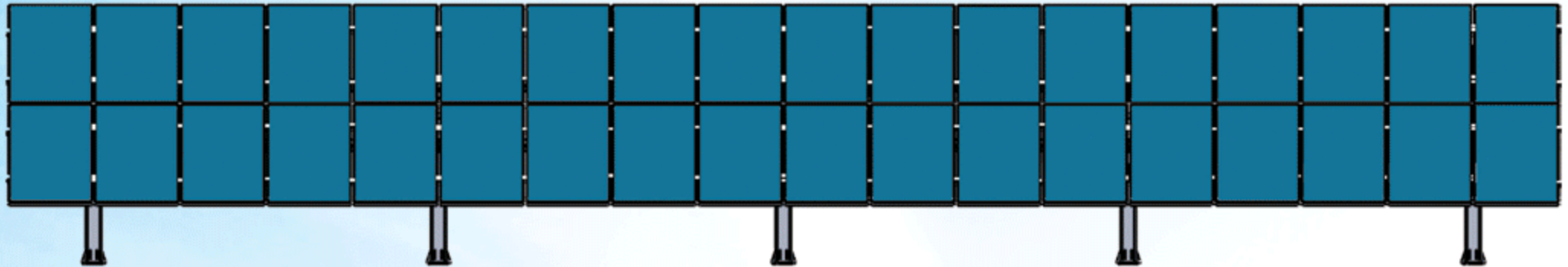


Single Axis Solar Tracker ELT-500D



Everlight ELT-500D Trackers are designed to provide high quality, cost effective tracking for utility scale power production. Incorporating tracking capabilities in your solar power production facility will generate larger returns on your investment and reduce your system's buy back time. Our solar trackers increase the amounts of sunlight PV panels are exposed to, lengthening their peak performance time and generating more electricity. Compared to static solar arrays, the ELT-500D can increase a system's power output by 10-30% greatly increasing power output over the life of the system.

Each unit is capable of accommodating up to 36 individual solar panels. Structural elements are made from high quality hot-dip galvanized steel for strength and support. Tracker motion is provided via a robust and dependable single axis, linear drive motor. The ELT-500D utilizes chronologically based PLC to accurately track the sun.

The tracker's highly flexible design can be adapted to many different terrains including sloping and uneven inclines, meaning less investment in site preparation and quicker installation times.

KEY FEATURES

Superior Performance

- Maximizes panel exposure to sunlight, increasing peak performance time
- PLC based chronological tracking
- Additional power output of up to 30% in comparison to fixed module installation
- Provides optimal performance with the least amount of maintenance

Solid Construction

- Robust, single axis linear drive mechanism
- Made with high quality hot-dip galvanized steel for strength and durability
- Engineered to withstand Adverse conditions and provide years of worry free service

Convenience

- Use with conventional solar modules, PV-Thermal models and concentrators
- Ground level mounting means easy maintenance access
- All components pre-assembled, no field fabrication required
- Can be installed on irregularly shaped landscapes
- Returns to sunrise position automatically

Lower Costs

- Simple, low-profile design with fewer parts
- Operation consumes < 1.5Kwh/year
- Linear actuator drive free of maintenance
- Requires minimal field leveling and site preparation
- Easy and rapid installation with preassembled parts and
- Everlight's ground screw system



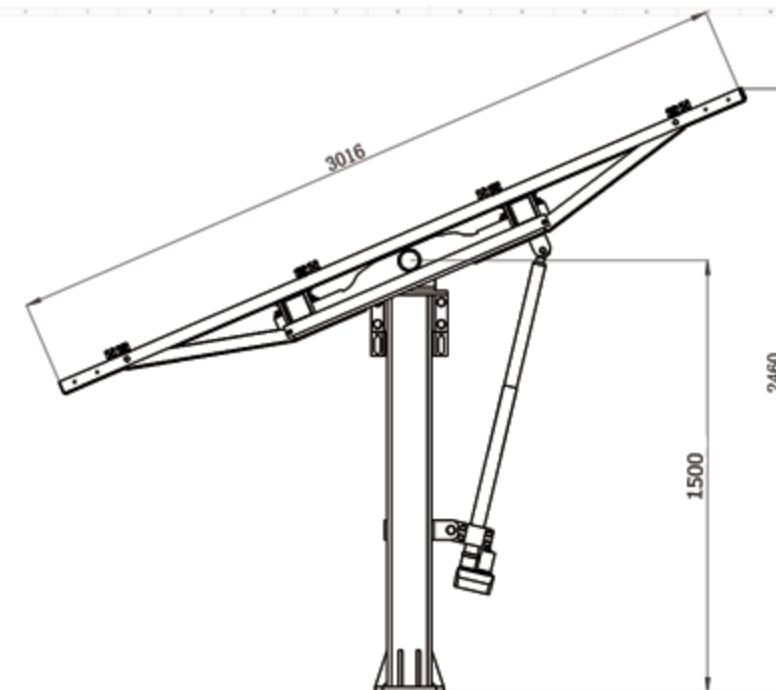
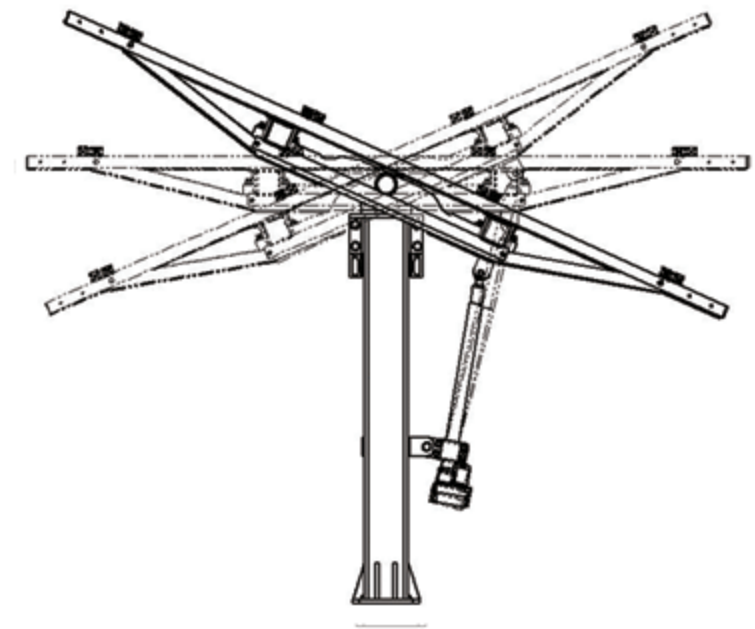
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ELT-500D Technical Specifications

Power	Up to 8.6KWp
Module Surface	Up to 60m ²
Number of PV Modules	36
Type of PV Modules	PV Thermal module EL-60/6PS (PVT) series
Module Configuration	Two modules stacked in portal (standard)
Module Rotation Structure	Dual rectangular rotation beams
Module Support Structure	Aluminum Panel Rails
Elevation East-West	-30°/+30°
Wind Load (Max.)	<145km/h
Wind Protection	Array automatically stows to 0°at 100km/h
Snow Load (Max.)	<0.5 kN/m ²
Array Height	2460mm
Weight (w/o module & base)	1840KG
Weight Loading	1620KG
Power Self-consumption	4Wh day (<1.5kwh/year)
Energy supply of tracking drive	24V, provided by one of the tracked modules
Materials	Hot-dip Zn-coated steel, aluminum frame with stainless steel screws
Drive	DC linear drive
Drive Motor	DC 24V
Government & Control	Astronomic programming by means of PLC
Automation	Interconnection and integral management routing
Codes & Standards	Carry CE Mark; UL Listed Controller; All structural steel to ASTM A36, A53, A500 or A992; Galvanization to ASTM A123M-02
Warranty	5 years renewable up to 25 years according to contract



Foundation

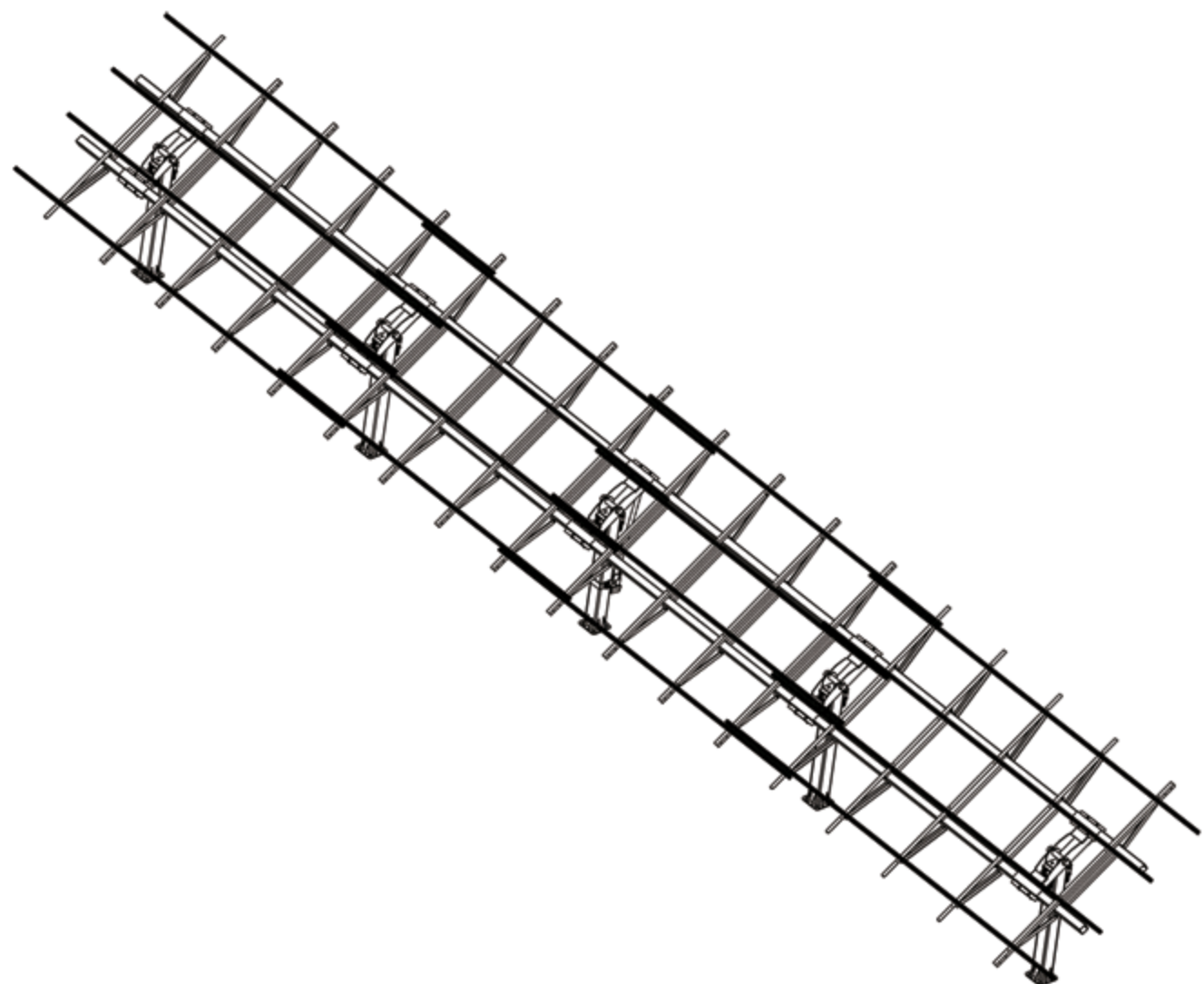
- Concrete foundation (3m³)
- Ground Screw foundation (No digging, fast and easy installation method)
- Ram foundation

Included in Delivery

- Frame and fixation elements, made of steel, Zn-coated
- Stainless steel screws for module fixation
- Electronics including battery
- Linear drive
- Mounting pole

Note:

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