solartracker
asturmadigroup



Solar Tracker
AST-1V
Data Sheet

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Solar tracker information

GENERAL CHARACTERISTICS	
Configuration	1PV 1x30
System	Single horizontal axis
Tilt range	±55º/±60º
Panels per row	Up to 60 panels
Peak power per row	Up to 42 kWp
Tracker lenght	Up to 70 meters

* The projects consist of multiple ground-mounted photovoltaic (PV) solar trackers. The photovoltaic solar trackers consist of single-axis trackers supported on piles made of C-channel and/or IPE sections driven into the ground. Due to the large number of trackers and piles, the site must meet leveling requirements so that the tracking system is efficient.

ESTRUCTURE	
Material	S-275 JR steel or higher
Coating	Hot-dip galvanized HDG-80 µm ZM (Zinc-magnesium)-310 or higher
Fasteners	Zn-Ni 8.8/ 10.9
Foundation	Driven piles/Predrilling/Micropile
Maximum wind speed	α = 30° / 5° → 150 km/h. α = 60° → 60 km/h
Maximum N-S slope	±15%
Maximum E-O slope	±12%

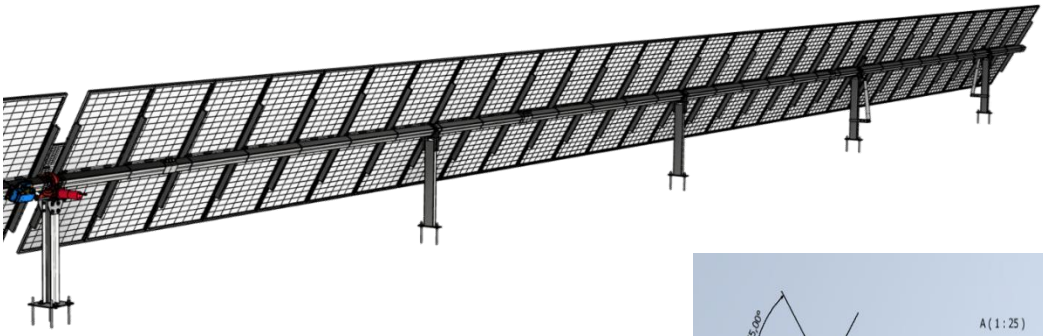
Tracker control information

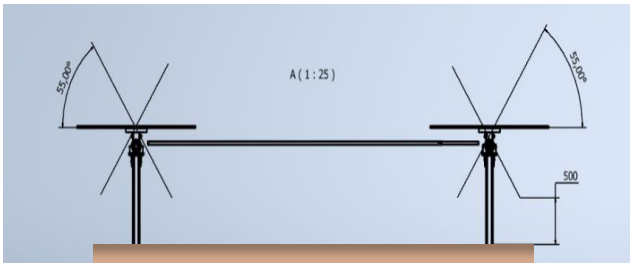
CONTROL SYSTEM	
Power Supply	DC motor
Voltage	Self-powered 24VDC
Drive system	Electromechanical
Motor power	90W-150W
Control system	backtracking and rest position
Communication	Ethernet/Wireless

Warranties and Maintenance

STANDARD WARRANTIES	
Structure	10 years (extendable)
Motor	5 years (extendable)
Electronics	5 years (extendable)

MAINTENANCE	
Recommended minimum	1 year





- In-house manufacturing of structural profiles
- The tracker can be adapted to different terrains based on site studies
- Ease of assembly process
- A team with an extensive experience in tracker design