

Azimuth Tracking System



Tracker Profile

The axis of rotation for vertical single axis trackers is vertical with respect to the ground. These trackers rotate from East to West over the course of the day. Such trackers are more effective at high latitudes than are horizontal axis trackers. Field layouts must consider shading to avoid unnecessary energy losses and to optimize land utilization. Also optimization for dense packing is limited due to the nature of the shading over the course of a year. Vertical single axis trackers typically have the face of the module oriented at an angle with respect to the axis of rotation. As a module tracks, it sweeps a cone that is rotationally symmetric around the axis of rotation.



Product Characteristics:

- More efficient at higher latitudes.
- Automatic tracking, with azimuth tracking range of $-120^{\circ}\sim 120^{\circ}$;
- Manual control mode, can adjust the angle of tracking artificially;
- Wind resistance design, with night reposition function;
- High accuracy: improved stability and accuracy by means of system optimization, structure innovation, control system innovation and software innovation.
- Low cost: reduced cost by implementing an independently designed SCM;
- Intelligent control, big data applications: our products have an obvious comparative advantage in technology, cost and safety. Additional functions such as automatic reporting technology, mobile APP control, profit calculation and etc. can be customized.

Product Specifications:

JS-AT		
Model	MS-PV-SAT33-L	MS-PV-SAT33
Array		
Modules Assembly Area	35m ²	33m ²
Modules Assembly Arrangement	18 Modules (3x6)	20 Modules (4x5)
Module Reference	265W – 1926x1014x8 mm	250W – 1650x991x40 mm
Power Generation Capacity	4.8kW	5kW
Tracking		
Tracking Accuracy	≤0.5°	
Tilt Angle	35°	
Tracking Angle Range	± 120°	
Tracking Principle	GPS–based Control Tracking	
Structure		
Material	Hot Galvanized Steel	
Electronic Control Cabinet	IP65, Weather Proof, Junction Connected	
Max. Operating Wind Load	22m/s	
Max. Wind Load at Stow Position	34m/s	
Working Temperature	–40° C ~ 60° C	
System Life	≥ 25 years	

JS-AT		
Model	MS-PV-SAT33-L	MS-PV-SAT33
Motor		
Motor Power	72W	
Average Annual Power Consumption	≤12kWh	
Controller Power Input	AC110V/AC220V	
Certifications and Warranties		
Certifications	CE, ISO-9001	
Warranty	Mechanical Part: 3 years; Electronic Parts: 1 year (Longer Warranty can be purchased)	
System Characteristics		
Automatic Tracking		
Independent Reset		
Manual Control		
Group Control		
Wind Speed Test		
Night Reposition Function		