GS-Light Intelligent Tracking System Solution

Intelligent Tracking System (Multipoint Drive) - 2P



System Introduction

Self-developed unique and highly reliable multi-point transmission tracking structure system, large torque tube, structure rigidity increased by 20%, can resist greater wind resistance, each row of trackers has 2 or more drivers, which is more improved accurate tracking accuracy and structural reliability, using the most advanced wind tunnel design, can adapt to multi-angle protection strategies, specifically designed for 182mm and 210mm large silicon highpower components.

• Suitable Power Plant Project

It is suitable for various power plant projects, especially in power plants with double-sided modules or high civil construction costs.

• Features

• 3 single-row drive devices, can improve the structural rigidity of the system and the system has stronger wind resistance;

• Adopt advanced AI intelligence and double-sided tracking algorithm, higher power generation;

• The column span is larger, the number of installed machines is less, and the construction cost is greatly reduced;

• Forward-looking design, applicable to 182mm and 210mm large silicon wafer high-power components, with a maximum of 120 components;

• Differentiated column design, different pile foundations can be selected according to different geological conditions, the slope of 15% in the north and south can be realized, and the slope in the eastwest direction is unlimited;

• The system has passed third-party testing and certification such as wind tunnel and TUV to ensure stable operation of the system for 25 years;

 It can be matched with AC or PV power supply to improve the stability of wireless transmission, take into account the laying of string and tracking cables, and greatly reduce the cost per kilowatt-hour (LCOE) of the power station.

Technical Information

Mechanical Aspect	
Number of tracker drive modules	2X60
Number of motors per tracker	1
Tracking range	±60°
Material	Hot-diplate +
East-west land slope	< 15°
North-south land slope	Unlimi
Module arrangement	Double
Ground clearance	> 500r
Foundation form	Static
Standard wind speed	< 47m
Protection wind speed	18m/s
Mechanical tracking accuracy	±2°
Land occupation rate	30%
Grounding method	Self-gr

Electrical Aspect

Drive way	Linear
Motor Power	220W
Flat time	< 8mir
Controller	MCU
Control tracking accuracy	< 2°
Control mode	Indepe
Limit protection	Mecha
Motor protection	Overh
Operating temperature	-40-+7
Protection level	IP65
Power consumption	< 0.1k
Power supply	String
Communication method	RS48
Signal transmission method	Wired

```
lip galvanized steel + aluminum-magnesium-zinc
+ pre-galvanized
```

- nited
- ole row vertical
- 0mm, (customizable)
- pressure pile, cement precast pile, concrete foundation
- m/s, 3 seconds gust, (customizable)
- ;
- rounding

ar actuator drive

- ninutes
- pendent GPS time control + tilt sensor hybrid control
- nanical limit + motor hard limit + soft limit
- heat protection, overcurrent protection, self-locking protection +70°C
- kWh/day
- power supply/external power supply
- 85 Modbus agreement
- d/wireless optional