

领鞅科技
LINGYANG TECHNOLOGY



Multi-point Electrically Driven Single-axis PV Tracking Control System

RECYCLABLE PACKING

EU-28 WEEE COMPLIANT

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Multi-point Electrically Driven Single-axis PV Tracking Control System

Product Description

This product is designed for multi-motor driven single-axis PV tracking system with one master and two slave controllers. The master is mounted near the central motor spindle and the the other two slaves are on the corresponding motor spindles. The control system automatically calculates the sun's position at any moment based on the local longitude and latitude, the time, and the program. The program automatically calculates the movement of the sun, the azimuth and altitude angles of the location at any time. In the tracking mode, the system will issue tracking commands according to the current position and control the motor to achieve real-time tracking of the sun and thus increase the power generation.

Product Advantages

Water-proof Structure
—— Aviation plug facedown

Human-Machine Interaction
——Easy clicking and debugging for less time and labour

IoT Cloud Platform
——Long-distance operation and monitor

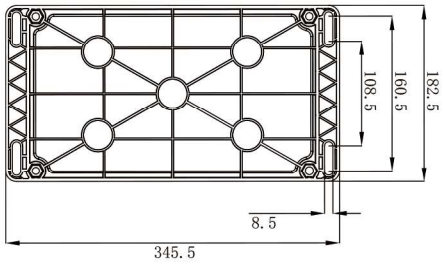
Load AI Module
——The intelligent algorithm is further optimized by neural network

Product Features

Wireless one-key upgrade, wireless self-grouping, anti-shadowing tracking, wind, rain and snow protection, over-current and over-temperature protection and other intelligent functions. While equipped with NCU, SCADA, they can manage to make the system in different complex meteorological conditions to automatically switch between different working modes, for the protection of PV bracket in the case of high wind, heavy rain, heavy snow, the whole system without human intervention, fully automatic operation, furthermore, it's professional to provide users with PV tracking one-stop solution.

System Datasets	
Models of product	TCU-HA 260P-24D02
Types of tracking panel	horizontal single-axis / titled single-axis
Drive systems	slewing reducer + DC motor / linear actuator + DC motor
Total rated motor output power	≤500W
Types of control	active tracking closed-loop control (astronomical algorithm + location feedback)
Mechanical Datasets	
Size	345mm*182mm*120mm
Box material	polymer material Makrolon®6487
Water-proof level	IP65
Display interface	YES
Keyboard interface	YES
Electrical Datasets	
Power supply mode	L+N（two-phases input）90-264VAC（wide input voltage）
Output voltage	24VDC
Wind protection	YES
Nighttime reset protection	YES (confirmed)
Disturbing protection	YES (soft pounding protection, over current protection, over load protection)
Anti-shadow tracking	YES
Wind speed protection	10m/s-30m/s（3S）（customized）
Types of communication	ZigBee/LoRa（wireless）/ RS485（wired）
Angle range of tracking	±30°-±60°（customized）
Models of AI control	customized
Network background	customized
Work temperatures	-30℃-70℃

Note: Standard setting above. For customized setting,



Size of the controller

Lingyang Technologies INC
Phone： +86-571-82820388
Email： SeanChen@ling-yang.com
Website： www.ling-yang.com
Address： Room 1906, Building B, 23 Fuye Lane, Xiaoshan District, Hangzhou City, Zhejiang Province, China