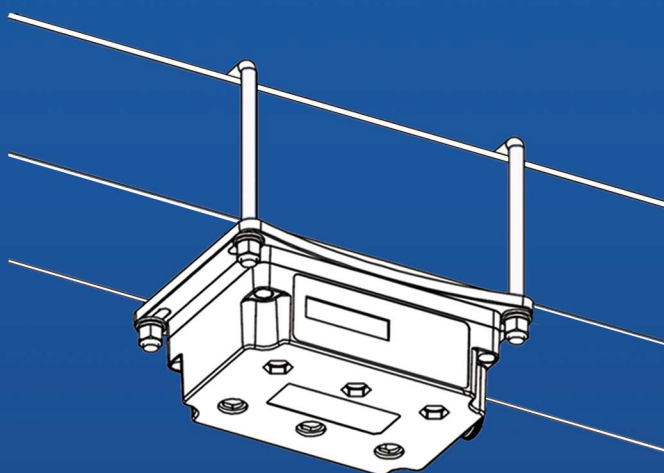领鞅科技
LINGYANG TECHNOLOGY

Solar Tracker Control Box

TCU-FA 260P

CE

RECYCLABLE PACKING

EU-28 WEEE COMPLIANT

Product Description

This series of product is intelligent solar tracking control box, which is highly intelligent PV tracking controllers. It will automatically calculate the movement trajectory, the azimuth and altitude angle of sun at any moment according to the local longitude, latitude, time and program, and control the operation of motor actuators to achieve real-time solar tracking of PV modules and thus increase 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.

Solar Tracker Control Box TCU-FA 260P

System Datasets

Models of product	FA 260P
Types of tracking panel	horizontal single-axis / tilted single-axis
Drive systems	slewing reducer + DC motor / linear actuator + DC motor
Motor power	≤180W（customed）
Daily power comsumption	≤0.17kWh
Types of control	active tracking closed-loop control (astronomical algorithm + location feedback)

Mechanical Datasets

Sizes	262mm*182mm*120mm
Box material	polymer material Makrolon®6487
Water-proof level	IP65
Display interface	YES
Keyboard interface	YES

Electrical Datasets

Types of power supply	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, please contact the team of Lingyang