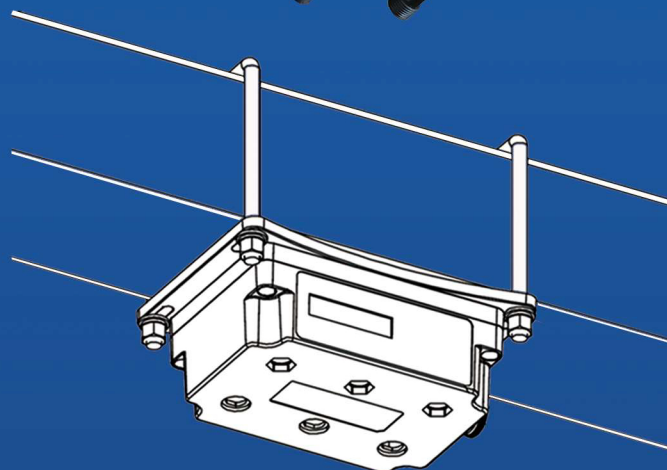




领鞅科技
LINGYANG TECHNOLOGY



Solar Tracker Control Box

TCU-FA 380M





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Product Description

The product is a controller for external 380V AC power supply, which is a highly intelligent PV tracking controller. It will automatically calculate the trajectory of the sun and the azimuth and altitude angle of the location at any moment according to the local longitude, latitude, time and program, and in automatic tracking mode, the system will automatically issue tracking commands according to the current position of the sun and control the operation of the motor actuator to achieve real-time tracking of the sun by 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.



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Solar Tracker Control Box TCU-FA 380M



System Datasets

Models of product	FA380M
Types of tracking panel	horizontal single-axis / titled single-axis
Drive systems	slewing reducer+ AC motor
Motor power	≤2.2KW (customized)
Daily power consumption	≤0.1 kWh
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	380V AC (3 phase 4 wire system)
Output voltage	380VAC
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°C-70°C

Note: Standard setting above. For customized setting, please contact the team of Lingyang