



PV Tracker Control Box Datasheet

Why Choose AIT-1500

Robust Performance

Engineered for consistent and reliable power generation.

Adaptable Design

Suitable for diverse environments and installation requirements.

High Efficiency

Maximizes energy output, ensuring optimal returns on investment.

Water Proof Protection

Built to withstand challenging weather conditions.

EASY INSTALLATION

- Eliminates Cable Laying
- Facilitates Easy Electricity Access

CONVENIENT COMMISSIONING

- Reduces Project Commissioning Time
- Streamlines Commissioning Process
- Requires Fewer Spare Parts, Simplifying Commissioning

COST-EFFECTIVE

- Saves Time and Cable Laying Costs
- Removes the Need for Additional Small PV Panels
- Overcomes 7-8 Year Lithium Battery Lifespan Limitations
- Lowers Maintenance Costs
- Extends Life Expectancy

AIT-1500



Product advantages

Tracking Control System

AITRACKER's TCU Provides Advanced Algorithms for Optimized Solar Tracking

- Real-time Data
- AI Adaptability
- High Precision
- Remote Monitoring
- Intelligent Control
- Less CPEX

Guangdong Zeyang Intelligent Technology Co.,Ltd

①7F01, Chuangyan Headquarters,
Zone B, Haobang Shou Smart Park,
Sanshui District, Foshan City,
Guangdong Province

☎ +86 17340557898

✉ sales@zeyang-ai.com

🌐 www.zeyang-ai.com

AIT-1500 Tracking Controller Datasheet

Electrical Parameter

Input

Input Voltage	300~1500V
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Output

Output Voltage	24VDC
Rated Output Power	150W(350W Optional)
Rated Output Current	6.25A

Battery

Battery Type	Lithium Battery
Battery Capacity	99.9Wh

Power Dissipation

Daily Power Consumption	<0.05kWh/day
Static Power	<0.7W

Tracking algorithm and operating mode (matching communication boxes and sensors)

Tracking Algorithm	Active tracking closed loop control (astronomical algorithm + position feedback)
Backtracking Mode	YES
Wind Protection Mode	YES
Night Reset Protection Mode	YES
Rotation Angle Protection Mode	YES
Overload Protection Mode	YES
Heavy Rain Protection Model	Optional
Snow Protection Mode	Optional
Flood Protection Mode	Optional

Basic Parameter

Certification	CE,UL
Operating Temperature	-10℃~60℃ (-40℃~60℃ Optional)
Storage Temperature	-40℃~85℃
Communication Method	Zigbee/RS485
Water-proof Level	IP65
Control Box Housing Material	Polymer Material Makrolon*6487
Altitude	<4000m
Weight	2.8kg
Dimension	392*185*120mm (L*W*H)