R∧ISE A GREEN WORLD

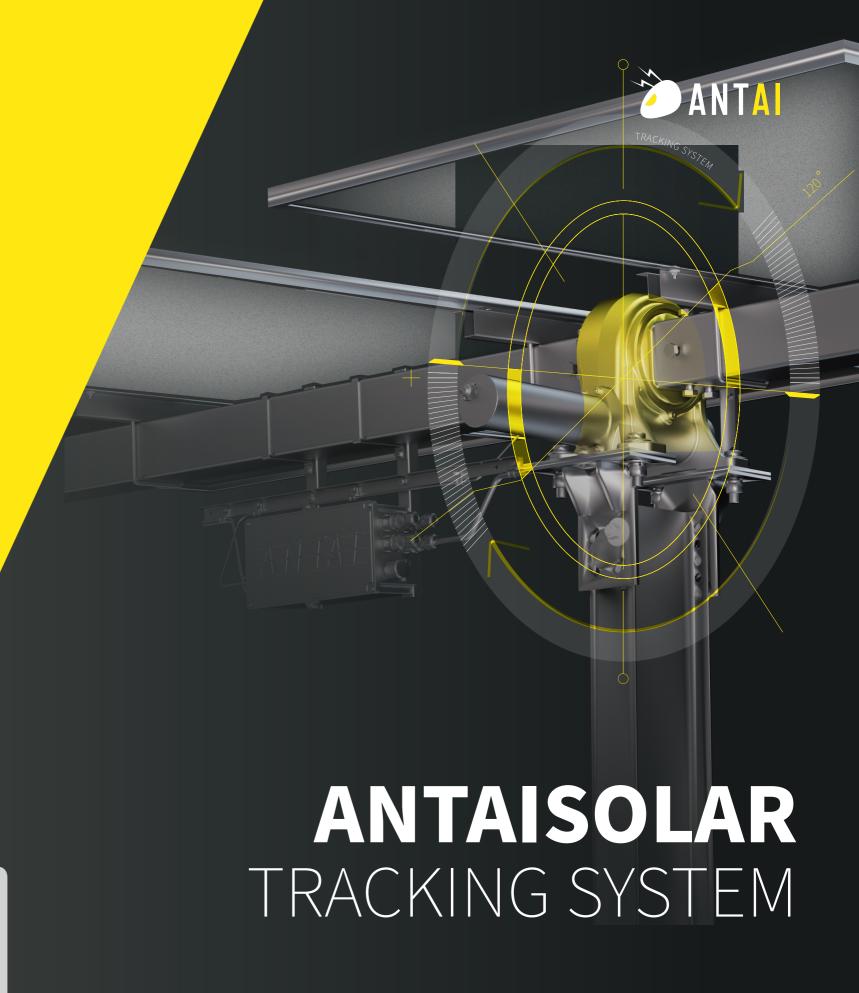
Web | www.antaisolar.com

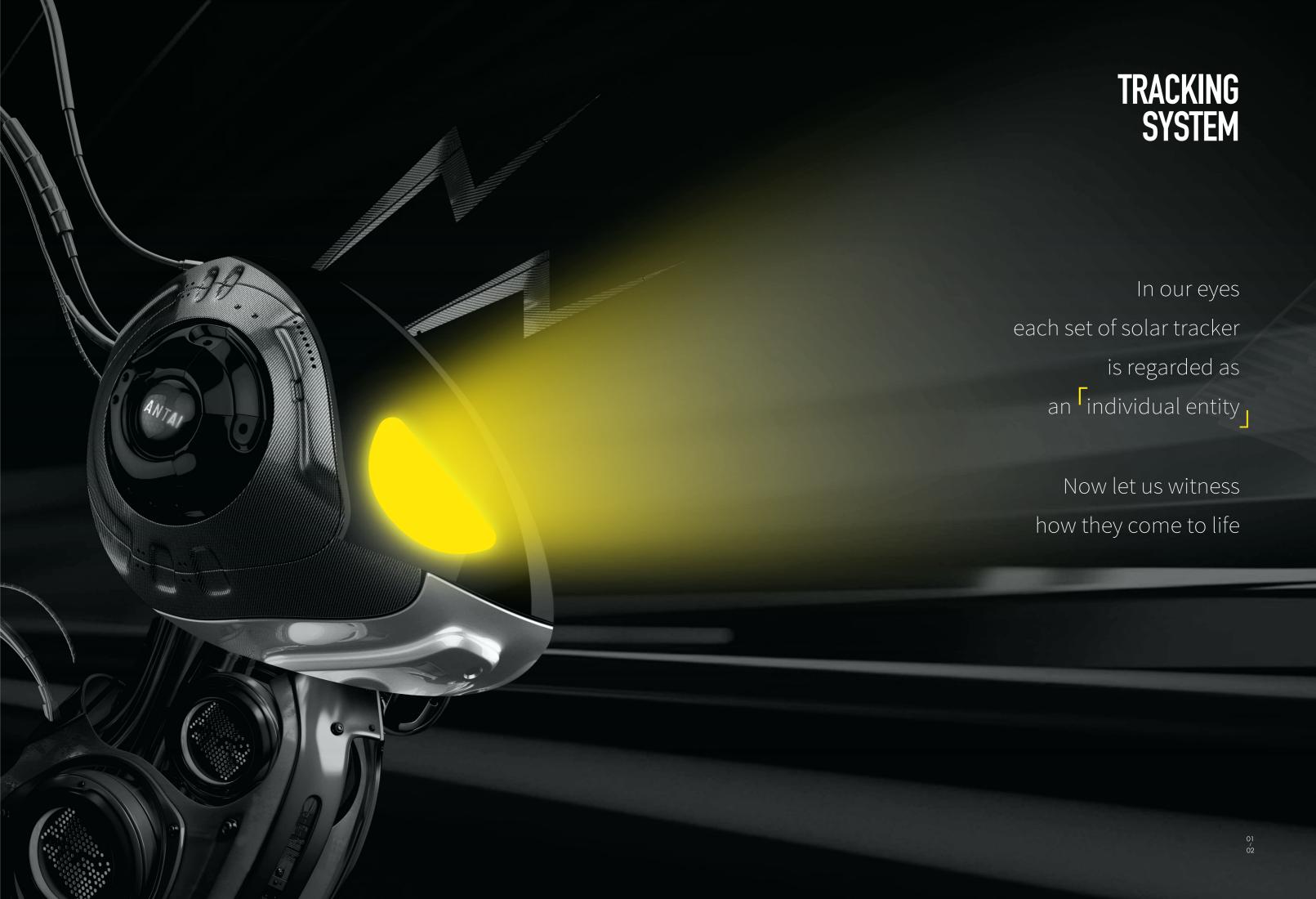
E-mail | sales@antaisolar.com

HQ Add | 30F, W Square, 1801 Huandao East Road Siming District, Xiamen, China

Production Base Add | Guanshan Industrial Park Changtai County, Zhangzhou, China







CHAPTER OF **STRUCTURE**

FORMING A SOLID BACKBONE

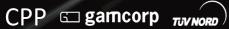
Six production bases

- Manufacturing centers located in China, Southeast Asia, South Asia, the Middle East, Europe, Latin America
- Vertical integrated production with strict process control
- Annually capacity of solar tracker: 8.5GW

Multiple layers of quality management

- Certified to the ISO 9001 standard
- Fully automated cold roll forming and punching production line to ensure product processing performance
- Obtained CPP, Intertek, SGS, CE, UL, TUV and DNV authoritative certification and Gamcorp structural certification.





















Comprehensive wind tunnel test

- Introduced authoritative CPP wind tunnel test data
- Completed the fourth stage of wind tunnel test, with double guarantee of strength and stability
- Offering the best solution in a cost-effective way according to different areas of wind pressure, snow pressure, geological conditions, ground roughness, corrosion, etc.

Two laboratory bases

- All products pass strict node testing for ensuring its stability
- Full-process monitoring of all test data, instant feedback
- Advanced life test facility for strict quality control

CHAPTER OF **CONTROL SYSTEM**

Traditional Tracking Algorithm: only focused on the direct light

• Traditional algorithm: only focused on the shadow avoiding situation

Antaisolar Intelligent Algorithm: optimized tracking angle for low irradiation condition and scattering lights during cloudy days, with a 0.5%-2% power

Antaisolar Intelligent Algorithm: from the viewpoint of the overall layout plan, the algorithm iterated the optimized tracking angle for each controller, with a

FORMING A PRECISE NEURAL NETWORK

Antai Intelligent Algorithm

0.5%-3% power generation increased

generation augment



Whole UL Certificated Accessories Assembly

All accessories had been certificated by UL



Effcient and Reliable Communication System

- Zigbee wireless system
- Mesh Networking
- High transmission rate
- Stable communication quality



Cleaning Robot Integrated System

- Close control loop with cleaning robot that formed a perfect tracker-robot match
- Daily cleaning routine to increase the power generation



Independent R&D Control Kernel

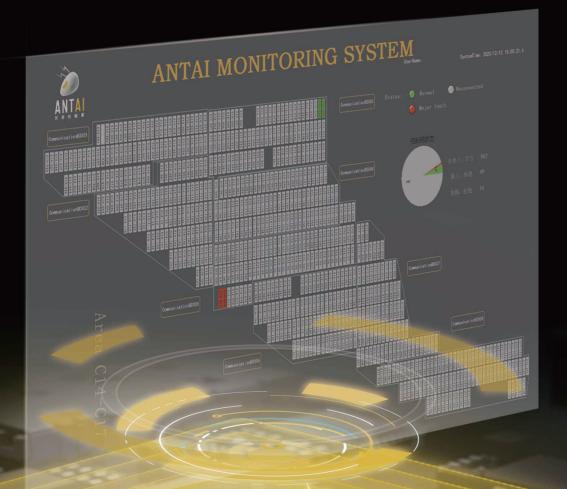
- An independently researched and developed, highly integrated and easy-installed Control Unit
- Significantly reduced the power consumption and installation assembly error



Cooperative R&D Essential Module

- 1000VDC/1500VDC PV string power SMPS module
- Power Supply: 300-1500VDC String Powered, 90-264VAC Powered, Backup lithium battery
- -30°C low-temperature lithium battery module
- High-accuracy tilt sensor





CHAPTER OF AI SYSTEM

FORMING A INTELLIGENT BRAIN



Big Data Supported Machine Learning Potential Risks Forewarning

- Large database formed from daily tracking load analysis
- · Operation analysis from big data gathered from daily tracking
- Forecast the component's service life to decide the maintenance and components replacement for the whole solar farm's reliability
- Reduce the potential power losses by the O&M operation



Smart self-inspection and Commissioning

- Installation self-inspection by comparing the operation data of each component with the standard operation data after installation, it can give forewarning for installation errors in time and improve installation efficiency.
- Control Unit (CU) fast configuration via smartphone QR code scanning
- Up to 200 CU centralized control by Data Logger via smartphone



Al Weather Condition Waring Inclement Weather Protection Mode

- Introducing high accuracy AI forecasting system
- System equipped with hyetometrograph, anemometer rain and snow sensor, etc. to record the real time weather conditions. And the system combines the historical data, meteorological satellite images, and field weather conditions to generate a 30 minutes' accurate forecasting

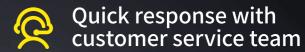


Al Light Source Tracking Maximum Power Generation Optimization

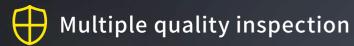
 Using the historical big data and the weather, terrain, scattered light conditions, together with the AI deep machine learning method to generate the optimized tracking path, and maximize the power generation

CHAPTER OF **SERVICE**

FORMING A DEDICATED HEART



- 7*24 on call
- Multilingual, 1 to 1 exclusive customer service
- Designing proposal offered within 24 hours



- · Simulated laboratory for testing the system rationality
- Structural inspection ensures excellent quality of solar tracker
- Whole system condition testing platform for electric

Self-owned logistics team

- Customized logistics services provided for fast access to case site
- Directly cooperate with ocean, air, land, rail carriers to reduce intermediate links and reduce logistics costs
- Global agency network, all-the-way tracking of cargo transportation
- Overseas warehouses established with stocks of general-purpose supplies



Experienced engineering & site support

- Conduct site survey before the project to optimize the project plan
- On-site project managers for controlling the entire process from delivery, schedule coordination to product inspection for Utility projects

On site technical installation guidance if necessary



Global network & localization service

Strategic layout of overseas branches and offices Local sales and technical team service



TRACKING SYSTEM

TAI (Simple)

Slew-Drive Single-Axis Independent Tracking System—1P



Patent single-slew-drive design



Dampers Protect



Fewer column for fast installation



Wider range of tracking



Match for bifacial modules



Match for auto-cleaning robots

- 1P, with the length up to 97m
- Up to 55 m/s wind speed per ASCE 7-10
- Slope Tolerances: Unlimited E-W direction N-S Up to 20% (11°)
- Tracker Rotation Range: Up to $\pm 60^\circ$

















TRACKING SYSTEM

TAI Universal

Multiple Slew-Drive Single-Axis Independent Tracking System—2P



Multi-slew drive though mechanical synchronously



Higher system nature frequency, Wind resistance increase by nearly 3 times



Great slope terrain adaptability



Wider range of tracking



Match for bifacial modules



auto-cleaning robots

- 2P, with the length up to 70m
- Up to 55 m/s wind speed per ASCE 7-10
- Slope Tolerances: Unlimited E-W direction N-S Up to 20% (11°)
- Tracker Rotation Range: Up to $\pm 60^\circ$



















TRACKING SYSTEM

TAI (Space)

Multiple Slew-Drive Single-Axis Independent Tracking System—1P



Maximum length of 240m with mainstream large-format module



Multi-point Slew . Drive



BLDC system with more than 30 years' maintenance-free serviced life



Wider range of tracking



Match for bifacial modules



Match for auto-cleaning robots

- 1P, with the length up to 240m
- Up to 55 m/s wind speed per ASCE 7-10
- Slope Tolerances: Unlimited E-W direction N-S Up to 20% (11°)
- Tracker Rotation Range: Up to $\pm 60^\circ$







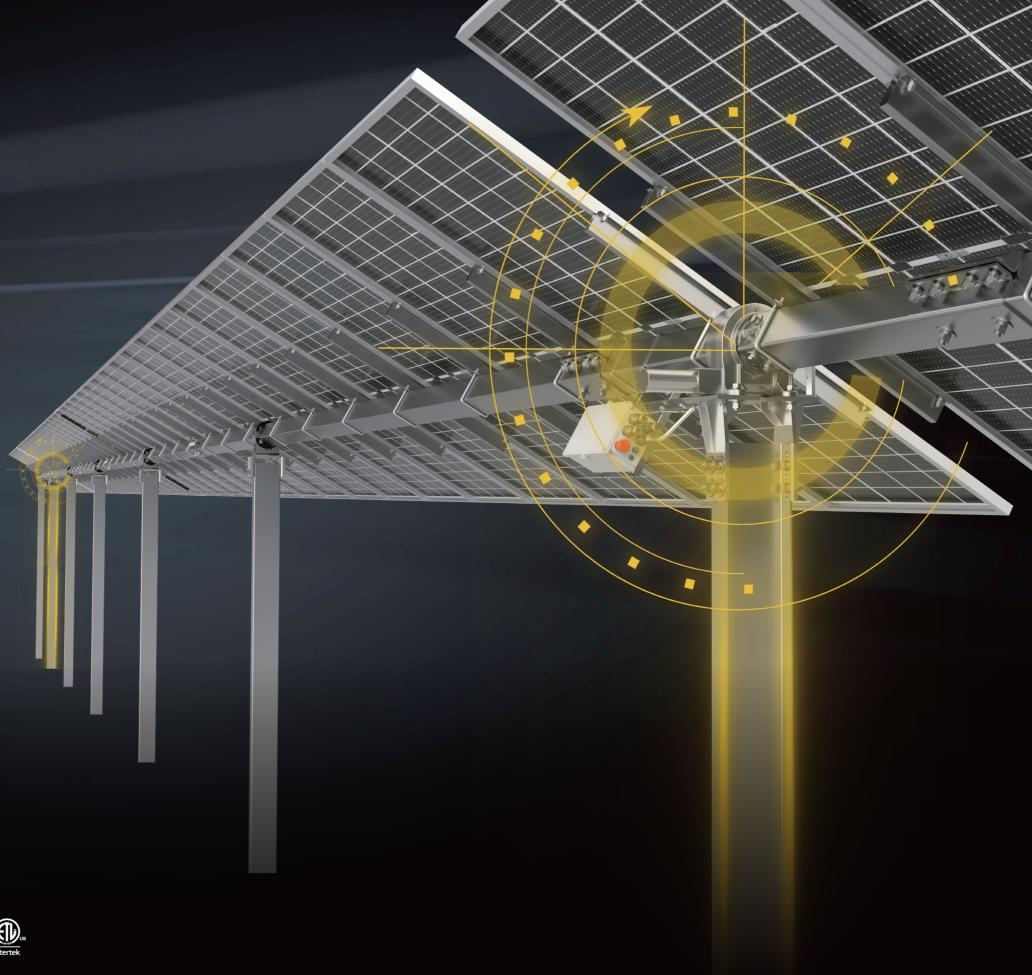














MEMO

