



**HANERSUN**

# FORGING GREEN ENERGY FRONTIERS

*25th March 2026  
Katowice*





2025 PVEL  
**kiwa**  
TOP PERFORMER

**HANERSUN**

# ABOUT HANERSUN

Like a “technological ark”, Hanersun forges ahead in the vast ocean of energy. It has consistently been recognized as a BNEF Tier 1 solar module manufacturer, earned the “Top Performer” award from Kiwa PVEL, and featured on PVBL’s “Top 100 Global PV Companies” list. It creates energy value for customers in over 100 countries and regions.





# KEY FIGURES

**HANERSUN**

Hanersun is a world-leading clean energy company, focusing on R&D, manufacturing and distribution of solar module and energy storage system, as well as comprehensive clean energy solutions. Committed to high-efficiency technologies, the company is one of the first to launch PV modules of 600W+ and 700W+ in the industry.

Founded in 2015, Hanersun has established branches in the US, Europe, Japan, Australia, Brazil, Pakistan and other regions, ensuring localized customer services. By the end of 2025, Hanersun has cumulatively delivered over 16GW of solar modules, and seen its energy storage products selling throughout Europe.



**Tier1**

Solar Module  
Manufacturer



**Top Performer**

Awarded by Kiwa PVEL



**16GW+**

Cumulative Modules  
Shipments



**900MW**

Projects Commissioned



**100+**

Financial Partners



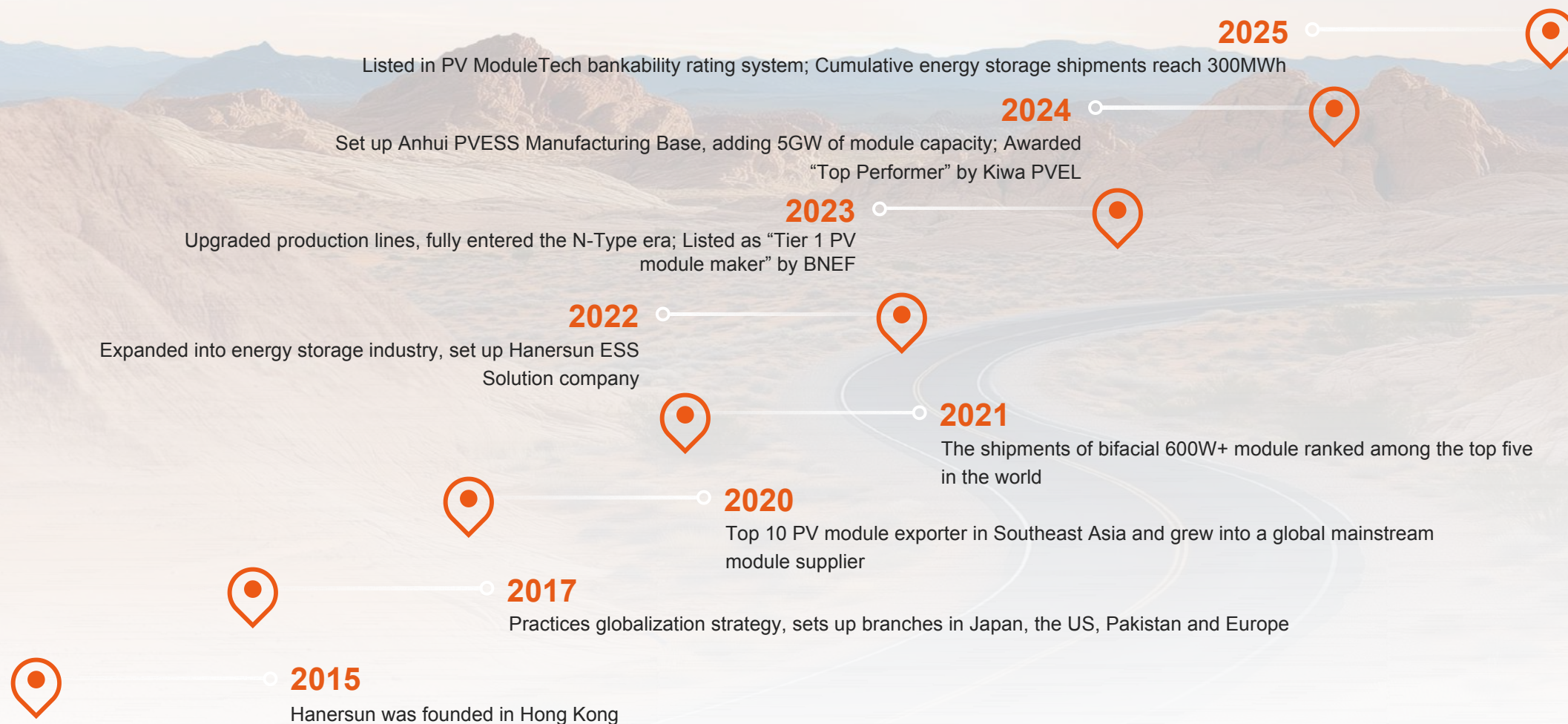
**100+**

Countries Business  
Footprints



# MILESTONES

**HANERSUN**







# GLOBAL NETWORK

**HANERSUN**





# CORE BUSINESS

**HANERSUN**

## PV MODULES



R&D



Manufacturing



Sales

## ENERGY STORAGE SYSTEMS



R&D



Manufacturing



Sales

## ENERGY SERVICES



Project Development



EPC



O&M





# SUPERIOR BANKABILITY

**HANERSUN**



Trusted by over 100 international banks and financial institutions, Hanersun has consistently been listed as “Tier1 PV module maker” by BNEF since 2023, bringing continuous and stable return on investment to global clients.



# WIN-WIN COOPERATION

**HANERSUN**

1000+ customers worldwide embrace the growth and innovation of Hanersun.





# LEAD IN TECH-DRIVEN PRODUCTION

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With “technology” as the guide and “craftsmanship” for quality, Hanersun explores clean energy by deeply integrating tech innovation with smart manufacturing, leveraging automated processes and AI for continuous solar and energy storage R&D, achieving their steady upgrading and reliable intelligent production, and solidifying its outstanding competitive edge.



# R&D ROADMAP

**HANERSUN**

**2022**

- ◆ Released the **HITOUCH 5N** 182mm TOPCon module

**2023**

## 700W ULTRA-HIGH EFFICIENCY MODULES

- ◆ Released the **HITOUCH 6N** 210mm TOPCon module

**2024**

- ◆ Released the **HITOUCH 6RN** module series

**2025**

- ◆ Released the ultra-light flexible **HITOUCH Airy Series** module
- ◆ Released the **HITOUCH 6N** 210mm TOPCon 0BB module

**2026**

- ◆ Released the **HITOUCH 6N PRO** quarter-cut design module



**120+  
Solar Patents**



**Experienced  
R&D Engineers**



**Module Efficiency  
up to 24.8%**



**Highly Competitive  
Product Iterations**





# PRODUCT ROADMAP

**HANERSUN**

| Series                | Model         | Power(unit: watt) |         |         |         |         |         |
|-----------------------|---------------|-------------------|---------|---------|---------|---------|---------|
|                       |               | Q1/2026           | Q2/2026 | Q3/2026 | Q4/2026 | Q1/2027 | Q2/2027 |
| HITOUCH 5N            | HN18N-72H(T)  | 600               | 600     | 600     | 600     | 600     | 600     |
|                       | HN18N-54H(T)  | 450               | 450     | 450     | 450     | 450     | 450     |
|                       | HN18RN-54H(T) | 460               | 460     | 460     | 460     | 460     | 460     |
| HITOUCH 6N            | HN21N-66H(T)  | 730               | 735     | 740     | 745     | 750     | 750     |
|                       | HN21RN-48H(T) | 475               | 475     | 480     | 480     | 485     | 490     |
|                       | HN21RN-54H(T) | 530               | 530     | 540     | 540     | 545     | 550     |
|                       | HN21RN-66H(T) | 650               | 650     | 655     | 660     | 665     | 670     |
| HITOUCH 6N <i>PRO</i> | HN21RN-66QT   | 660               | 665     | 665     | 670     | 670     | 675     |

HN: Module series

##: No. of full cell

H: Half cell

\*\*: Cell size

R: Rectangle cell

T: Bifacial

Q: Quarter

## Cell Size

| Cell | 182  | 210  |
|------|------|------|
| Code | HN18 | HN21 |

# NEW TIER 1 INTELLIGENT FACTORY **HANERSUN**

**95% Automation**



**16s Per Module**



**99.8% Yield**



Focusing on the integration of production and research, Hanersun continuously enhances the automation and intelligence of its manufacturing processes. In 2023, we upgraded our existing production lines technologically, effectively improving energy utilization and further reducing production costs. In 2024, our PVESS manufacturing base in Anhui officially started production, establishing a lean and efficient intelligent production model.



Automatic Cell Cutting



Smart Soldering



Automatic Layering



Automatic Lamination



Automatic Framing



Automatic Tooling Loading and Unloading





# ADVANCED INTERACTION SYSTEM

**HANERSUN**



Hanersun MES (manufacturing execution system) supports efficient operation of production management and manufacturing process, SPC statistics, warehouse functions, etc.

We track every step of every module component from incoming quality control, to online production, OBA test and delivery status, etc.



# TRUSTWORTHY QUALITY CONTROL **HANERSUN**



## MATERIAL CONTROL

Flawless supplier management and evaluation system  
Strict incoming-material inspection standards  
100% batch inspection  
Fixed temperature and humidity storage environment  
Sophisticated disposal process of defective products



## IN-PRODUCTION CONTROL

52 quality check points  
3 times EL tests  
100% data monitoring by MES system  
Experienced quality team  
0 defect quality management concept  
Authoritative third-party calibration



Received Certifications for  
Quality Management System



## POST-PRODUCTION CONTROL

100% FQC/OQC inspection  
10% OBA inspection



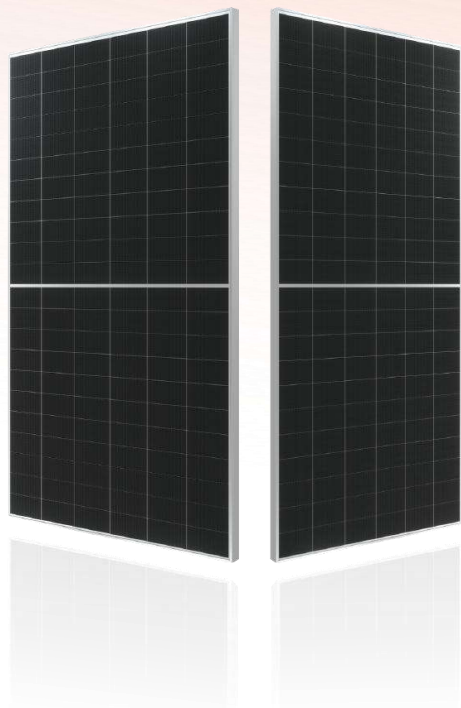
# DELIVER THREE-IN-ONE EMPOWERMENT

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Hanersun connects the “solar-storage-consumption” links, offers full-lifecycle energy services, and integrates technology with services through high-efficiency solar modules, intelligent energy storage systems and refined energy management to provide customers with integrated solutions featuring low electricity costs and high ROI.

# PV MODULES

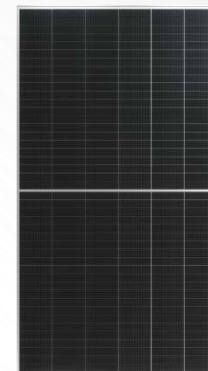
As a world-leading manufacturer of solar modules, Hanersun drives industry innovation with cutting-edge technologies. The company took the lead in launching 600W+ and 700w+ high-power modules, pioneering the era of N-type technology with its HITOUCH N series, while continuously pushing the boundaries of efficiency with the HITOUCH N PRO series.



## HITOUCH **N**

- ◇ High-efficiency TOPCon cell with non-destructive cutting
- ◇ Multiple busbar design increases power output by 1-2%
- ◇ Round wire busbars increase power output by 2%
- ◇ Bifaciality up to 80%-85%

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## HITOUCH **N** *PRO*

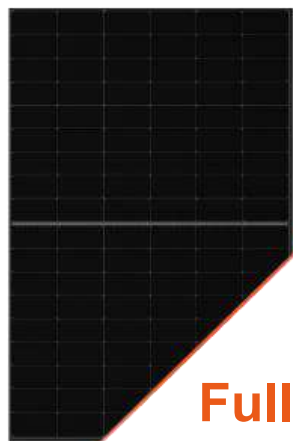
**2nd-Gen** N-Type Structural Design

**2%** Higher Efficiency Gain

**-0.26%** Excellent Temp Coefficient



Meanwhile, by releasing new photovoltaic-building solutions such as the Full Black Series, Crystal Series, and Airy Series, Hanersun keeps expanding photovoltaic applications to achieve carbon reduction in buildings.



**Full Black Series**

- ◇ **Within 2m<sup>2</sup>**  
Selected size, easy to install.

- ◇ **Elegant Appearance**  
Obsidian look, enriches architectural aesthetics.



**Crystal Series**

- ◇ **High Light Transmittance**  
With a light transmittance rate of up to 45%, it provides both light and electricity.
- ◇ **Lower Costs**  
The 1500V system voltage reduces BOS cost, delivering higher-than-ever ROI.



**Airy Series**

- ◇ **Ultra-light Flexible**  
Only 8kg, 70% lighter.
- ◇ **Easy to Install**  
No need for racks, adaptable to building surfaces, saving project costs.

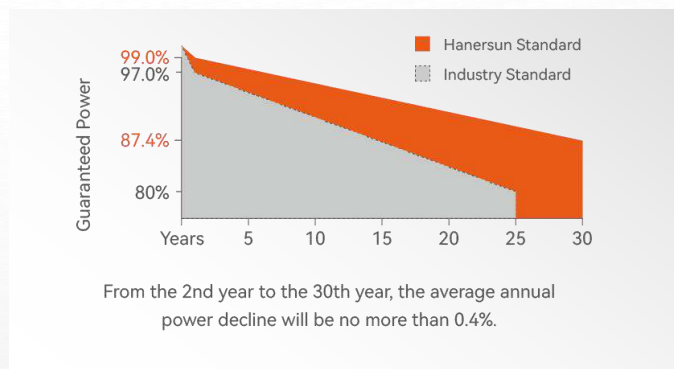


**HANERSUN**

## COMPANY WARRANTY

52 strict quality inspection steps, 3\*100% EL test.

15-year product warranty, 30-year performance warranty .



## CERTIFICATES

Accredited by international authoritative laboratories



## INSURANCE

Warranty partner







# ENERGY STORAGE SYSTEMS

**HANERSUN**

Hanersun leverages years of technical accumulation to establish its wholly-owned subsidiary Hanersun ESS Solution Co., Ltd. in 2022, developing energy storage R&D and PV-storage synergy capabilities.

The company launched the second-generation HNESS systems in 2025 to bolster its technological lead. With 300MWh already shipped, the systems boast international certifications, full safety protection, and intelligent energy management for C&I scenarios.

## PRODUCT CERTIFICATES



CE - LVD

CE - EMC



IEC 62619:2022

UN38.3



### Comprehensive Safety Protection

Three-stage fire protection  
Harsh environment adaptation  
Full-lifecycle health monitoring



### Smart Energy Management

EMS for PV-storage synergy  
Cloud-based remote monitoring  
Uninterrupted PV-storage linkage



### Flexible Scalability

Multi-unit parallel expansion  
Modular plug-and-play  
Diverse application scenarios



### Intelligent Temperature Control

Precise temperature control, low energy consumption  
Extends battery life & ensures stable operation

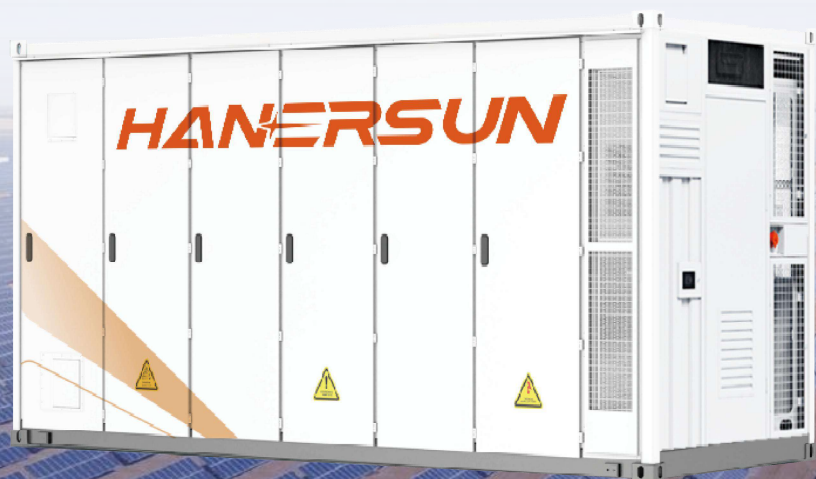


# ENERGY STORAGE SYSTEMS

**HANERSUN**

**HNESS** 3420/5000-20H

3.42/5MWh



Utility Storage System

**HNS** 261K-125P

125kW/261kWh

**HNESS** 230-L

100kW/230kWh



2nd-gen Intelligent  
Energy Storage Cabinet



# ENERGY SERVICE

**HANERSUN**

With 10 years of global dedication, Hanersun has built a professional energy service team combining international expertise with localized experience. Leveraging successful development and construction of 900MW solar projects, Hanersun has established a full life-cycle service solution.

## ONE-STOP ENERGY SERVICES



### Precise Development

Diverse funding channels,  
risk-aligned budgeting

### Localized Design

Proven expertise,  
full-scene reliability framework

### Stringent Sourcing

Hanersun-curated BOM,  
professional global supply chain

### Lean Management

End-to-end EPCM,  
quality & risk dual control

### Smart O&M

Real-time data analysis,  
rapid fault troubleshooting

### Excellent Service

Full-capability closure,  
sustainable high returns

**THROUGHOUT  
THE FULL PROJECT  
LIFECYCLE**



# TOWARD A SUSTAINABLE FUTURE

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Hanersun commits to advancing with the environment and society, deepens ESG practices (environmental management, social responsibility, corporate governance), fulfills social responsibilities, engages in public welfare, practices green operations, builds a win-win ecosystem, and contributes “Hanersun Strength”.



# ESG PHILOSOPHY

**HANERSUN**  
— 汉伏能源 —

In 2024, Hanersun introduced the new ESG philosophy HNSG, reflecting the company's long-term commitment to sustainable development through environmental stewardship, social contribution, and corporate governance to build a corporate value system.

Integrity in business  
Robust governance  
Transparency

**H**onor

IN GOVERNANCE

Technological breakthroughs  
Product advancement  
Smart manufacturing

**N**ext

GENERATION INNOVATION

Employee care  
Community contribution  
Public welfare

**S**upport

FOR COMMUNITIES

Climate action  
Environmental management  
Green manufacturing

**G**reen

ACTION FOR THE PLANET

**Strategic Goal** — To achieve harmony between technological innovation, ecological balance, and social development.

The HNSG framework draws inspiration from the “H” and “N” in the Hanersun brand name, while integrating the two core values of “Support” and “Green.” It serves not only as Hanersun’s ESG compass, but also as a blueprint for the company’s journey toward a greener future.



# ENVIRONMENTAL MANAGEMENT

**HANERSUN**

Hanersun integrates environmental responsibility into operational management, reducing carbon footprint via quantifiable actions, establishing OHS & environmental management systems, strictly controlling risks, building a green sustainable supply chain, and constructing a “production-product-recycling” green closed-loop.

## GREEN PRODUCTION

### Clean Energy-Driven, Strict Operation Emission Control

100% production sites hold ISO 14001 certification, driving carbon reduction with clean energy. Bases increase PV power usage. Xuancheng Plant's PV rooftop generates ~30 million kWh yearly, cutting CO<sub>2</sub> ~30,000 tons and saving over 9,215 tons of standard coal.

## LOW-CARBON PRODUCTS

### Full-Lifecycle Eco-Protection, Circular Responsibility

Builds full-lifecycle eco-system, establishes carbon footprint management to control environmental impacts from raw materials to manufacturing. Proactively joins WEEE and other recycling initiatives, forming “production-use-recycling” circular loop to answer global low-carbon appeals.

## COMMITMENT FULFILLMENT

### Third-Party Audits, Authentic and Credible Data

Released Greenhouse Gas Emission Report (TÜV SÜD audited) and 2024 ESG Report. Environmental performance data is third-party audited, ensuring transparency and traceability.



# SOCIAL RESPONSIBILITY

**HANERSUN**





An aerial photograph of a tropical coastline. On the right, a lush green island with dense palm trees and other vegetation meets the sea. A modern building with solar panels on its roof is visible on the island. In the deep blue ocean, a large cargo ship with a yellow and orange container stack is sailing, leaving a white wake. The sky is a clear, vibrant blue.

**HANERSUN**

# GLOBAL SUCCESS CASES

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From deserts to oceans and cities to wilderness, as energy undergoes profound transformation, Hanersun covers diverse scenarios, provides leading solar modules, energy storage products and full-lifecycle services, drives sustainable project-environment integration, and demonstrates its “technological ark’s” multi-scenario adaptation and reliable delivery capabilities.



# UTILITY PROJECTS

**HANERSUN**





# UTILITY PROJECTS

**HANERSUN**

















# RESIDENTIAL PROJECTS

**HANERSUN**





# CONTACT US

## HEADQUARTER

A: 10F, B4 Block, No.19 Suyuan Avenue,  
Jiangning District, Nanjing, China

T: +86 25 5279 1766

E: [sales@hanersun.com](mailto:sales@hanersun.com)

## HANERSUN JAPAN CO., LTD.

A: 1001, Mido-cho, MARK SQUARE, 3-15-3  
Taito, Taito-ku, Tokyo Japan

T: +81 03-5829-5271

E: [sales@hanersun.jp](mailto:sales@hanersun.jp)

## HANERSUN US INC.

A: 1201 N Market St# 2300,  
Wilmington, DE 19801

E: [sales@hanersun.com](mailto:sales@hanersun.com)

## HANERSUN EU B.V.

A: Meerval 1, 4941SK  
Raamsdonksveer, Netherlands

E: [sales@hanersun.com](mailto:sales@hanersun.com)