

HANERSUN

**PIONEERING IN N-TYPE
RESHAPING
THE GREEN FUTURE**

2024 V3.0





THE PIONEER OF 700W+ TECHNOLOGY

Hanersun has been continuously rated as a BNEF Tier 1 module manufacturer since 2Q 2023. And in 2024, the company was awarded “Top Performer” by Kiwa PVEL.



KEY FIGURES

HANERSUN

Hanersun is a world-leading clean energy company, with a business scope from the R&D and manufacturing of solar modules, energy storage products, to energy solutions. By focusing on high-efficiency technologies, it is one of the first to launch solar module of 600W+ and 700W+ in the industry.

By the end of 2023, Hanersun has cumulatively delivered over 12GW solar modules to more than 90 countries and has developed and built 800MW of solar projects in the Asia Pacific.



Tier1

Solar Module
Manufacturers



90+

Countries
We Served



12GW+

Cumulative Modules
Shipments



800MW

Projects
Commissioned



60+

Financial
Partners



100+

Solar
Patents



MILESTONES

HANERSUN

2024

Set up Anhui PVESS Manufacturing Base, global capacity reached 5GW
Awarded "Top Performer" by Kiwa PVEL

2023

Upgraded production lines, fully entered the N-Type era

2022

Expanded into energy storage industry, set up Hanersun
ESS Solution company

2021

The shipments of bifacial 600W+ module ranked
among the top five in the world

2020

TOP 10 PV module exporter in Southeast Asia and grew into a global
mainstream module supplier

2017

Practices globalization strategy, set up the Japan, US, and Pakistani branches

2016

The capacity of commissioned projects exceeded 300MW

2015

Hanersun was founded in Hong Kong



GLOBAL NETWORK

HANERSUN





SUPERIOR BANKABILITY

HANERSUN



Trusted by Banks and Financial Institutions around the World

WIN-WIN COOPERATION

HANERSUN

**800+ Customers Worldwide
Embrace the Growth and
Innovation of Hanersun**





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INNOVATION SHAPES THE FUTURE

Hanersun is committed to the continuous R&D of solar modules and has taken the lead to launch the 210mm module and TOPCon module in the industry.



R&D ROADMAP

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2021

- Released the **HITOUCH 5** 182mm half-cell module
- Released the **HITOUCH 6** 210mm half-cell module

2022

USHERING IN A NEW ERA OF N-TYPE

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

2023

700W ULTRA-HIGH EFFICIENCY MODULES

- Released the **HITOUCH 6N** 210mm TOPCon module
- Released the **HITOUCH 5A** 182mm ABC module

2024

- Released the **HITOUCH 6N Plus** module series
- Released the **HITOUCH 6H** 210mm HJT module



100+
Solar Patents



Experienced
R & D Engineers



Module Efficiency
up to 23.2%



Highly Competitive
Product Iterations



PRODUCT ROADMAP



Series	Model	Power(unit: watt)				
		Q3/2024	Q4/2024	Q1/2025	Q2/2025	Q3/2025
HITOUCH 5N	HN18N-72H(T)	595	595	595	595	600
	HN18N-54H(T)	445	445	445	445	450
HITOUCH 6N	HN21N-66H(T)	705	705	710	710	710
	HN21N-60H(T)	640	640	645	645	645
	HN21RN-66H(T)	630	635	635	635	640
	HN21RN-48H(T)	455	460	460	460	465
HITOUCH 6N PLUS	HN210N-66H(T)	725	730	730	730	735
HITOUCH 6H	HN21H-66H(T)	735	735	740	740	740

HN: Module series **: Cell size
 ##: No. of full cell H: Half cell
 T: Bifacial

Cell Size		
Cell	182	210
Code	HN18	HN21

MODULE SERIES

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HITOUCH **H**

As the company's next-generation PV module, the HITOUCH H series leads the market with cutting-edge technology. With efficiency surpassing 23% and a power output reaching 735W, it offers an ideal solution for pursuing optimal energy utilization.

Outstanding Energy Yield

A superior temperature coefficient of $-0.24\%/^{\circ}\text{C}$ ensures less power loss at high temperatures.

Exceptional Efficiency

210mm heterojunction cells with SMBB technology.

Enhanced Weather Resistance

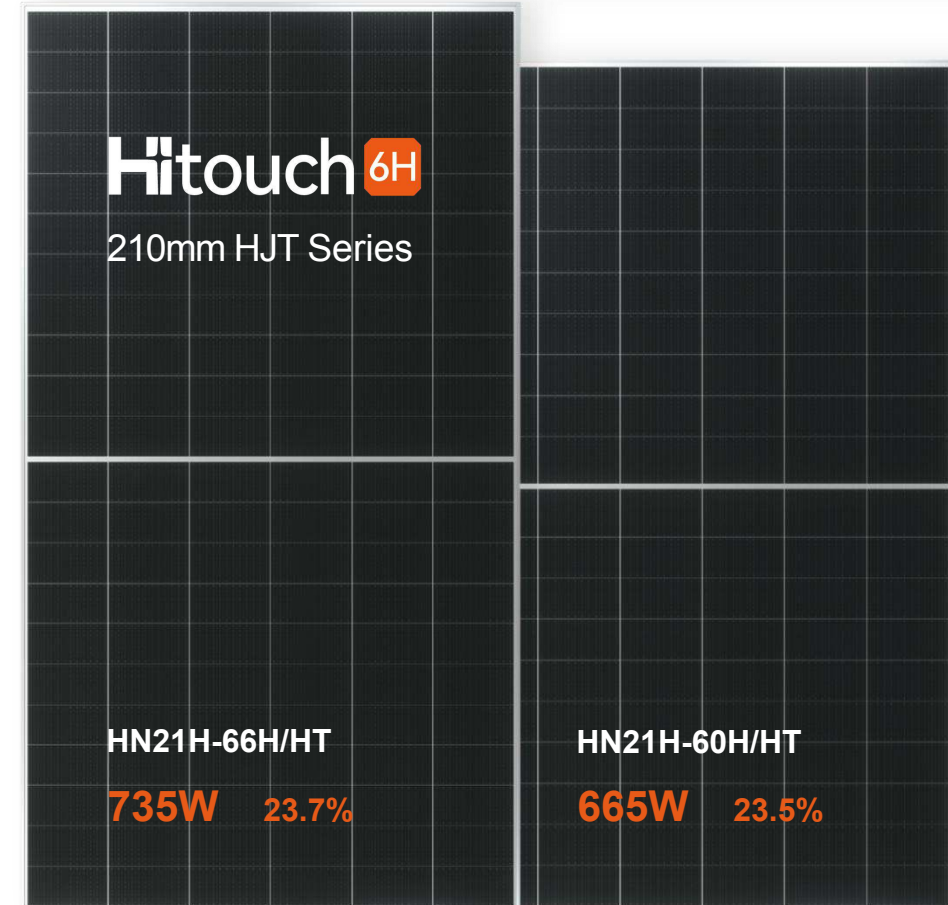
Stronger waterproof performance by encapsulating with butyl sealant.

Lower Degradation Rate

The first-year degradation $\leq 1\%$, from the second year onwards, the annual decline rate is capped at 0.3%.

Higher Bifaciality

With a bifaciality rate up to 90%, the rear side gain can reach up to 30%.



MODULE SERIES

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HITOUCH N

Hanersun has successively launched HITOUCH 5N and HITOUCH 6N in 2022 and 2023, stepping into the N-type era. In 2024, the introduction of the 0BB 6N PLUS continues to lead the wind. The HITOUCH N series provides excellent value to customers with its high efficiency and reliability.

Higher Efficiency

High-efficiency TOPCon cells, MBB technology, enhancing power output by 1-2%.

Higher Output

Non-destructive cutting, 0.5mm cell space, high-density encapsulation.

Upgraded Efficiency, Less Cost

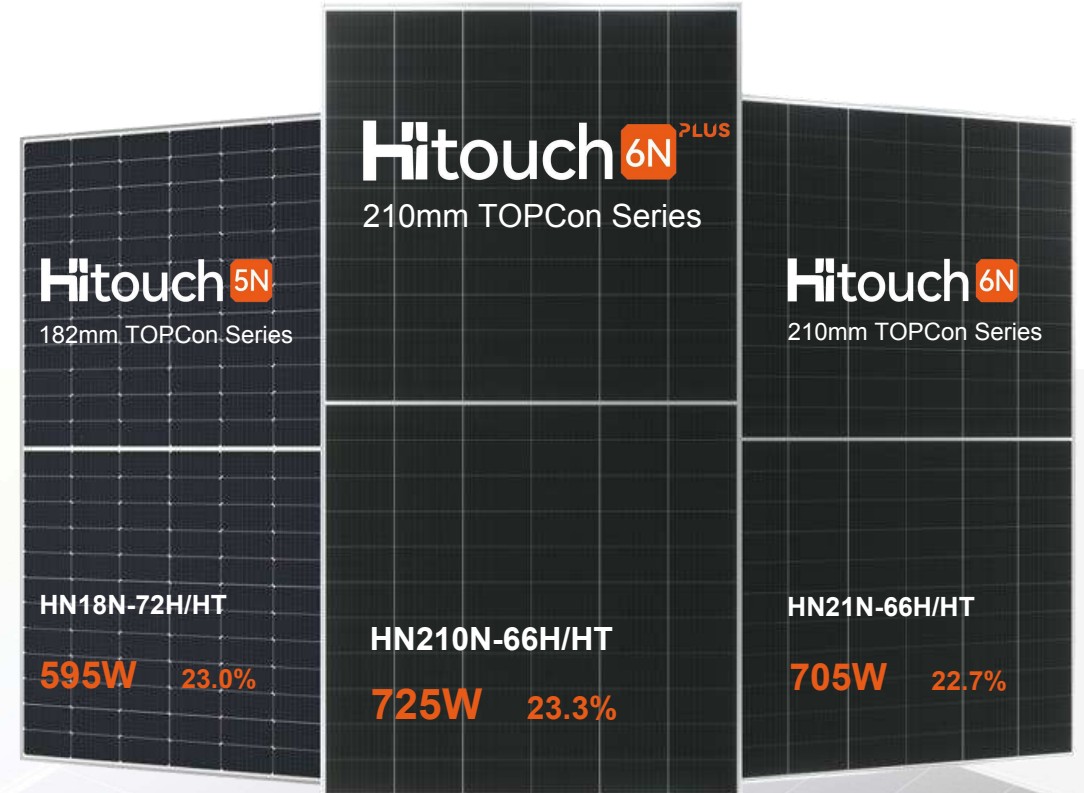
The 6N PLUS uses 0BB TOPCon cell with power up to 725W. The non-busbar structure increases light trapping, and reduces silver paste consumption by 15%.

Lower Temperature Coefficient

Low temperature coefficient of $-0.28\%/^{\circ}\text{C}$, stable power output under various temperature conditions.

Enhanced Durability

Excellent resistance to LID/LeTID and PID under extreme climate conditions.





C&I STORAGE SOLUTION

HANERSUN

ONE-STOP ENERGY SOLUTIONS
with Wide Output Range and High Reliability.



HNESS3420/L-20H 3.42 MWh

Intelligent Energy Storage Cabinet
Liquid Cooling

HNESS230-L 100kW / 230kWh

Utility Storage System
Liquid Cooling
BMS, Battery











RESIDENTIAL STORAGE SOLUTION






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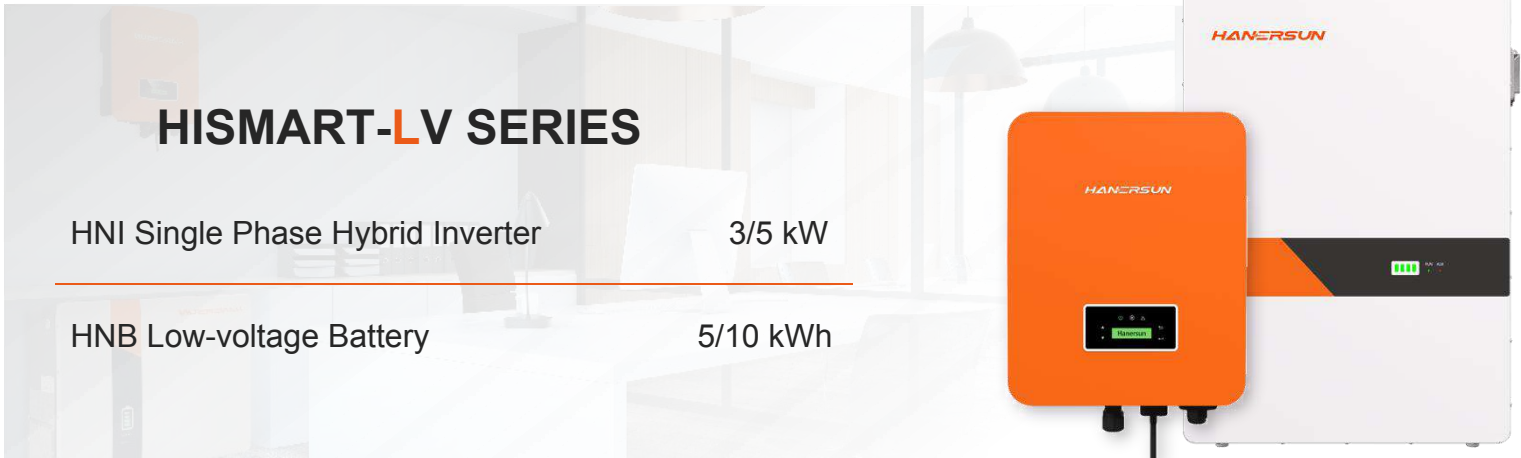


HISMAHRT-HV SERIES

HNI Three Phase Hybrid Inverter	5-30 kW
HNB High-voltage Battery	7.5-20 kWh

-  Adopt A Grade LFP Cell
-  Smart Monitoring & Remote Firmware Upgrade
-  Switch Time < 10ms
-  Compact Size and Easy Installation
-  Build in Anti-feed-in Function
-  Support Unbalance Load

- Adopt A Grade LFP Cell 
- Smart Monitoring & Remote Firmware Upgrade 
- Switch Time < 10ms 
- Compact Size and Easy Installation 
- Build in Anti-feed-in Function 



HISMAHRT-LV SERIES

HNI Single Phase Hybrid Inverter	3/5 kW
HNB Low-voltage Battery	5/10 kWh

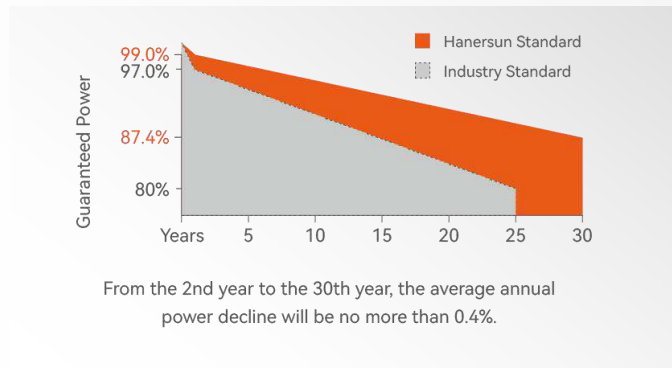
PROVEN QUALITY

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Company Warranty

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

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



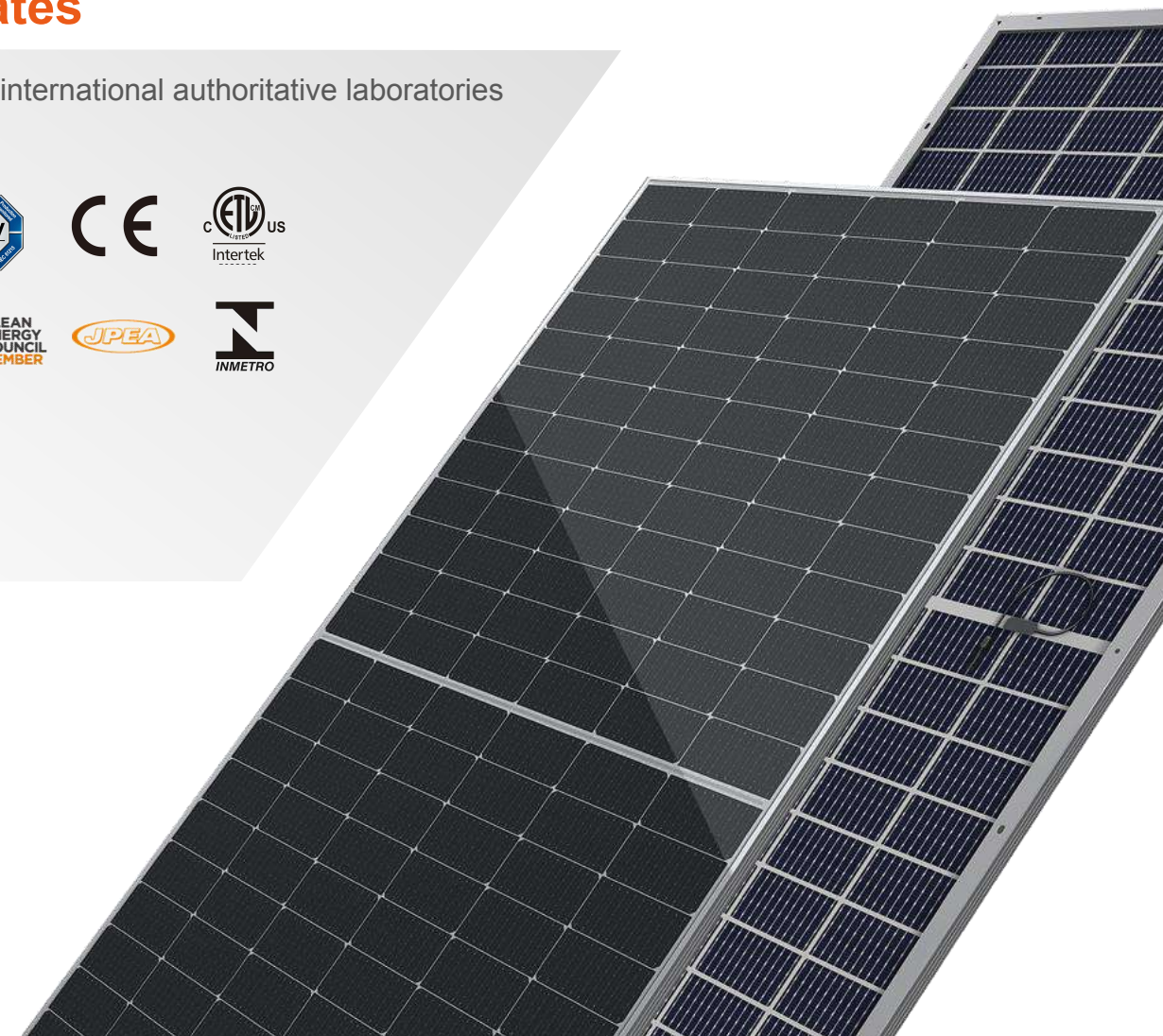
Certificates

Accredited by international authoritative laboratories



Insurance

Munich RE 





HANERSUN

HIGH PERFORMANCE HIGH QUALITY

We focus on improving the automation and intelligence level of core manufacturing process, and are committed to building a new tier 1 module intelligent factory with energy saving, high efficiency and full automation.



NEW TIER1 INTELLIGENT FACTORY **HANERSUN**

AUTOMATION



INTELLIGENCE



REFINEMENT



In 2023, Hanersun completed its comprehensive upgrade of the existing production lines, equipping them with TOPCon-compatible production equipment. With high precision, high yield, and fast switching advantages, the company has effectively improved capacity utilization and reduced production costs.



Automatic Cell Cutting



Smart Soldering



Automatic Layering



Automatic Lamination



Automatic Framing



3*EL Inspection



ADVANCED INTERACTION SYSTEM

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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



POST-PRODUCTION CONTROL

- 20% of inspection rate
- Open Box Audit (OBA) Test



Received Certifications for
Quality Management System



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BROADEN THE BOUNDARY OF SOLAR

Hanersun provides a wide range of high efficiency modules and professional solar system solutions depending on the different types of application scenarios and customer needs. It is Hanersun's mission to continuously break through and broaden the boundaries of solar applications.



POWER PLANT

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25MW

2023.1
Sa Kaeo, Thailand



POWER PLANT

HANERSUN



64.5MW

2017.4
Texas, USA



15.6MW

2022.12
Thailand



11.2MW

2022.12
Germany



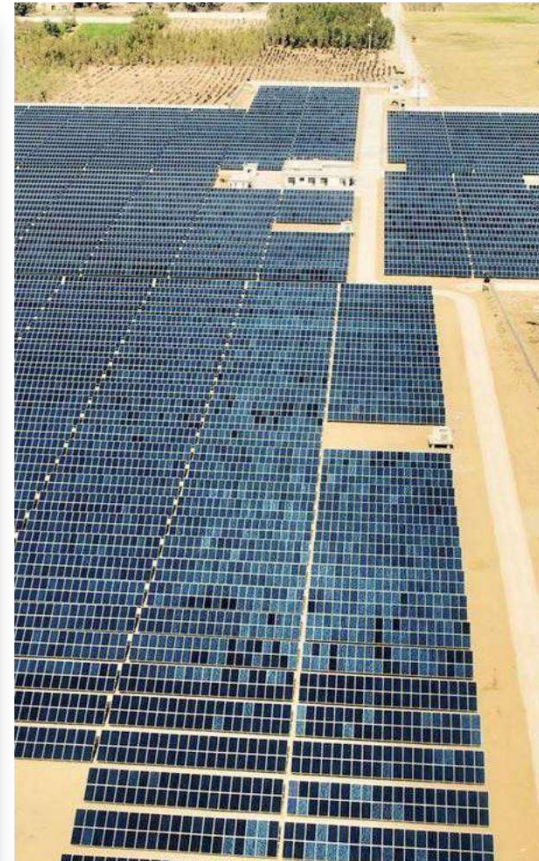
POWER PLANT

HANERSUN



48MW

2017.6
Guizhou, China



12MW

2017.12
Khushab, Pakistan



7MW

2022.2
Poland



POWER PLANT

HANERSUN



12MW

2023.11
Hokkaido, Japan



14.5MW

2016.1
Manila, Philippines



7MW

2023.11
Malbork, Poland



C & I PROJECT

HANERSUN



1MW

2020.12
GiaLai, Vietnam



C & I PROJECT

HANERSUN



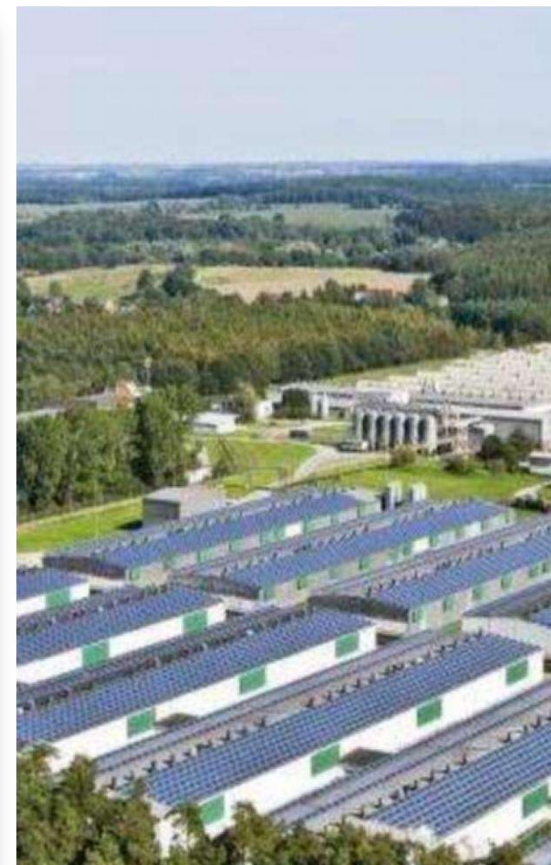
3MW

2024.7
Anhui, China



700KW

2022.11
Romania



8.7MW

2014.12
Munich, Germany



GD PROJECTS IN BRAZIL

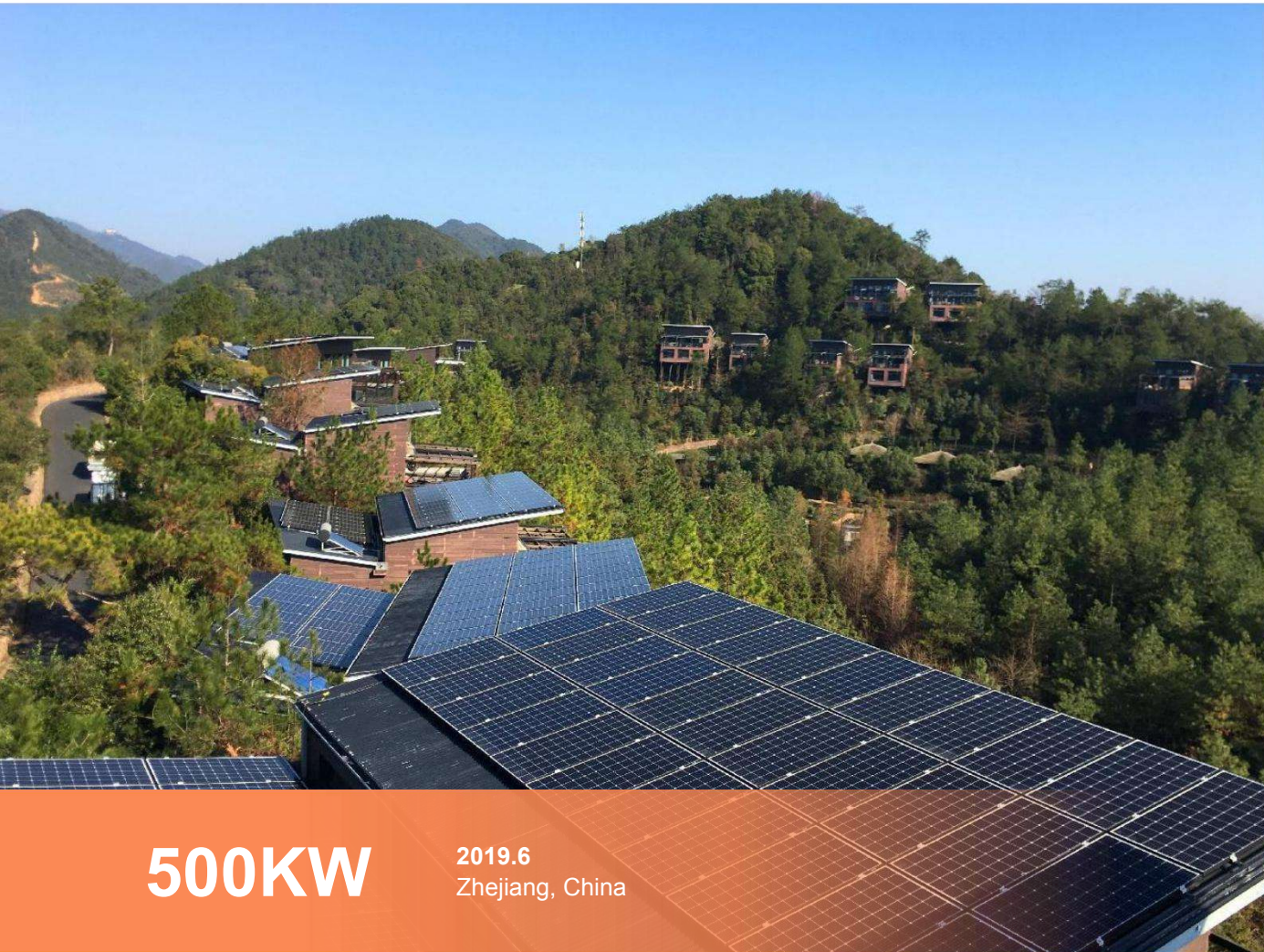
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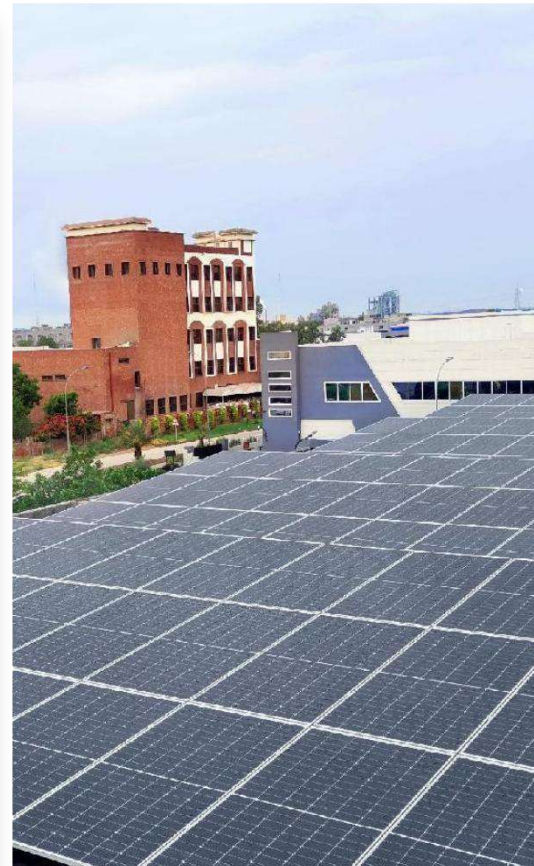
RESIDENTIAL PROJECT

HANERSUN



500KW

2019.6
Zhejiang, China



260KW

2022.7
Lahore, Pakistan



100KW

2019.1
Punjab, Pakistan



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