

A large, light gray graphic of a gear or turbine, composed of many small rectangular segments arranged in concentric circles, centered on the page.

**TRANSFORM
ENERGY**
FOR TOMORROW



Headquarters Jinzhong Production Base
No. 533, East Guang'an Street, Yuci District, Jinzhong, Shanxi 030600, China

Wenshui Production Base
No. 1 Wenshui Economic Development Zone, Lvliang, Shanxi Province 032100, China

Sales and R&D Center
2F, 1st Building, No.99 Haike Road, Zhangjiang High-tech Park, Shanghai 201210, China

JINNENG CLEAN ENERGY TECHNOLOGY LTD



Committed to become a leading
pv manufacturer
and clean energy provider
in the global market

Milestones

- Company founded

2013

- Wenshui base started commercial operation

2014

- HJT commercialization project launched

2015

- Wenshui base expansion completed and production started

2016

- Pilot production of HJT cells and modules started in Jinzhong base

2017

- Received global first HJT certification under new IEC standard
- Mass production HJT cell efficiency reached 23%

2018

- Be evaluated *National Green Factory*
- HJT champion cell efficiency reached 24.73%
- Listed BNEF Tier 1 PV Module Supplier

2019

- Be identified as *Enterprise Technology Center*

2020

- Achieved mass production of Large-size high-power modules

2021

- Reached the 3GW

2022

- 4GW TOPCon Cell project is in operation

2023

Jinneng Holding

Total Assets

158.9 billion USD

Coal Capacity

450 million tons

Installed Power Capacity

23.12 GW

Clean Energy Installed Power Capacity

15.36 GW



Jinneng Holding Group was established on September 30, 2020. Jinneng Holding Group is a comprehensive energy enterprise group mainly engaged in coal, thermal power and clean energy power generation, and integrating equipment manufacturing, logistics trade, chemical diversification and logistics services.

Jinneng Holding Group is a state-owned energy giant formed in 2020, Jinneng Holding Group has a registered capital of 7.22 billion USD and total assets of 158.9 billion USD.



Jinergy

Founded on December 31, 2013, Jinneng Clean Energy Technology Ltd. (Jinergy) is a global leading PV manufacturer and clean energy provider incorporated under Jinneng Holding Group.

Consisting of PV experts from home and abroad, Jinergy's management and R&D teams follow the core strategy of technology iterations. And through continuous technological innovation and lean production, Jinergy has reached the most advanced and cost-effective cell and module production capacity. With commitment to global coverage, Jinergy extends business in China, India, Japan, Pakistan, Mexico, Argentina, Australia, etc. and supplies customers with high quality and reliable solar modules.

Under technological innovation for industrial progress, Jinergy is bringing advanced PV manufacturing technology to the world and driving global energy structure transformation.



Top 500 New Energy Companies for Eight Years



Listed BNEF Tier 1 PV Module Supplier for 5 Years



Ranked as the Most Bankable by PV-Tech



National Intellectual Property Advantage Company



National Green Factory



Intelligent Manufacturing Demonstration Company

50+

Global Market Coverage



International Core Management

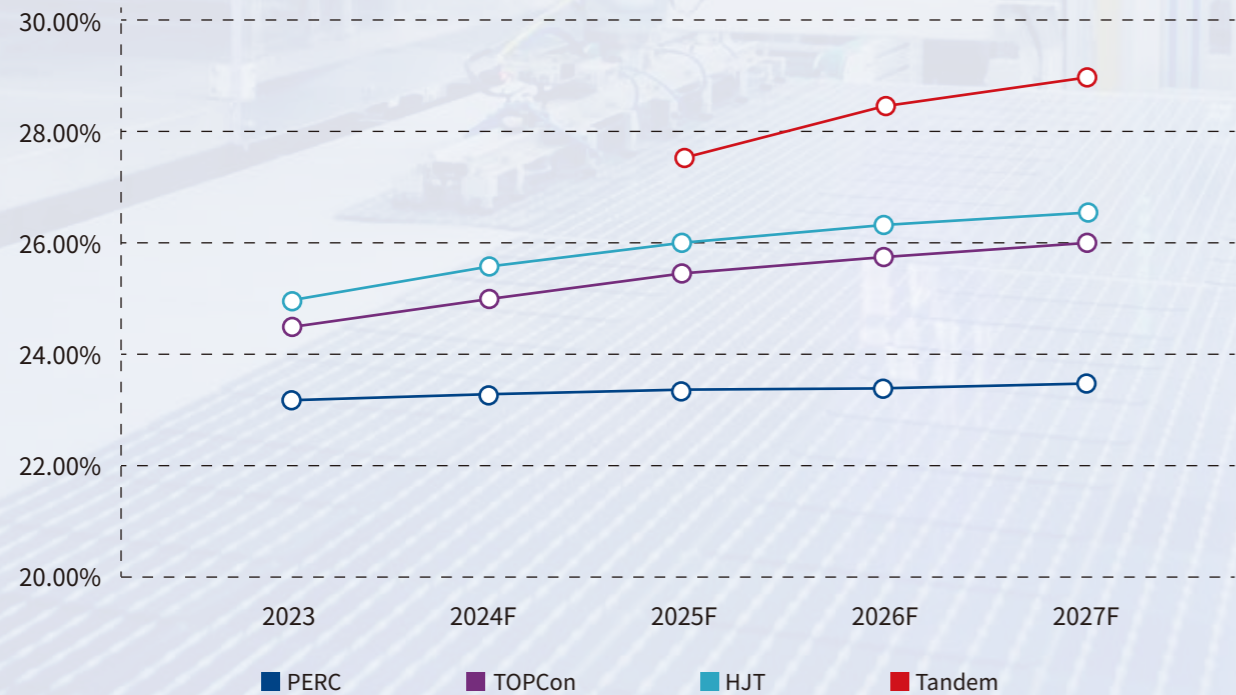


Industrial 4.0 Manufacture Base

Technological Route

Jinergy has been following an iterative technology strategy, and insisting on leading industrial progress with technological innovation. It has R&D and production capabilities for both PERC, TOPCon and HJT. Jinergy is currently developing Perovskite/XBC Tandem technologies and carrying out an industrial layout using advanced technologies.

- **297** Applying Patents
- **100+** Invention Patent



Intelligent Manufacturing

Industrial 4.0 Digital

- Make high efficient production by Digitalization.
- Achieve lean production by Applying Intelligent robots and fully automated equipment.
- Ensure a significant increase in product yield and production efficiency.

Quality Authentication

Four Guarantee Chains Whole Process Traceability

- Four guarantee chains: supplier management, process monitoring, shipment monitoring, and after-sales service.
- Achieve product lifecycle traceability.

Product Introduction



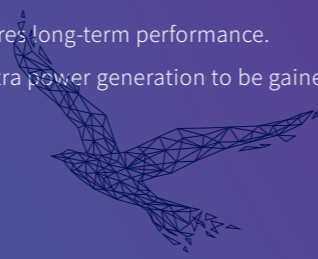
PHENOMENAL PERFORMANCE

Super High Efficiency N-HJT Solar Module



Improve Power Generation in All Aspects

- Lower temperature coefficient, PID-free, lower power loss in high temperature environment.
- Excellent low light performance, increase power generation at dawn/dusk and in cloudy days.
- Ultra-low power degradation ensures long-term performance.
- Bifacial factor > 85%, 10%-35% extra power generation to be gained in different scenarios.



High Efficiency N-TOPCon Solar Module



Performance More Advanced & Reliability Improved

- Lower LID and LeTID ensure long-term returns.
- Non-destructive cutting with ultra-high-precision welding avoids mechanical damage.
- SMBB metallization technology reduces series resistance losses and improves module reliability.
- Thinner busbars reduces shadow and conduction distance, increasing nominal power.



Super High Power /High Power PERC Solar Module



High Power & High Compatibility

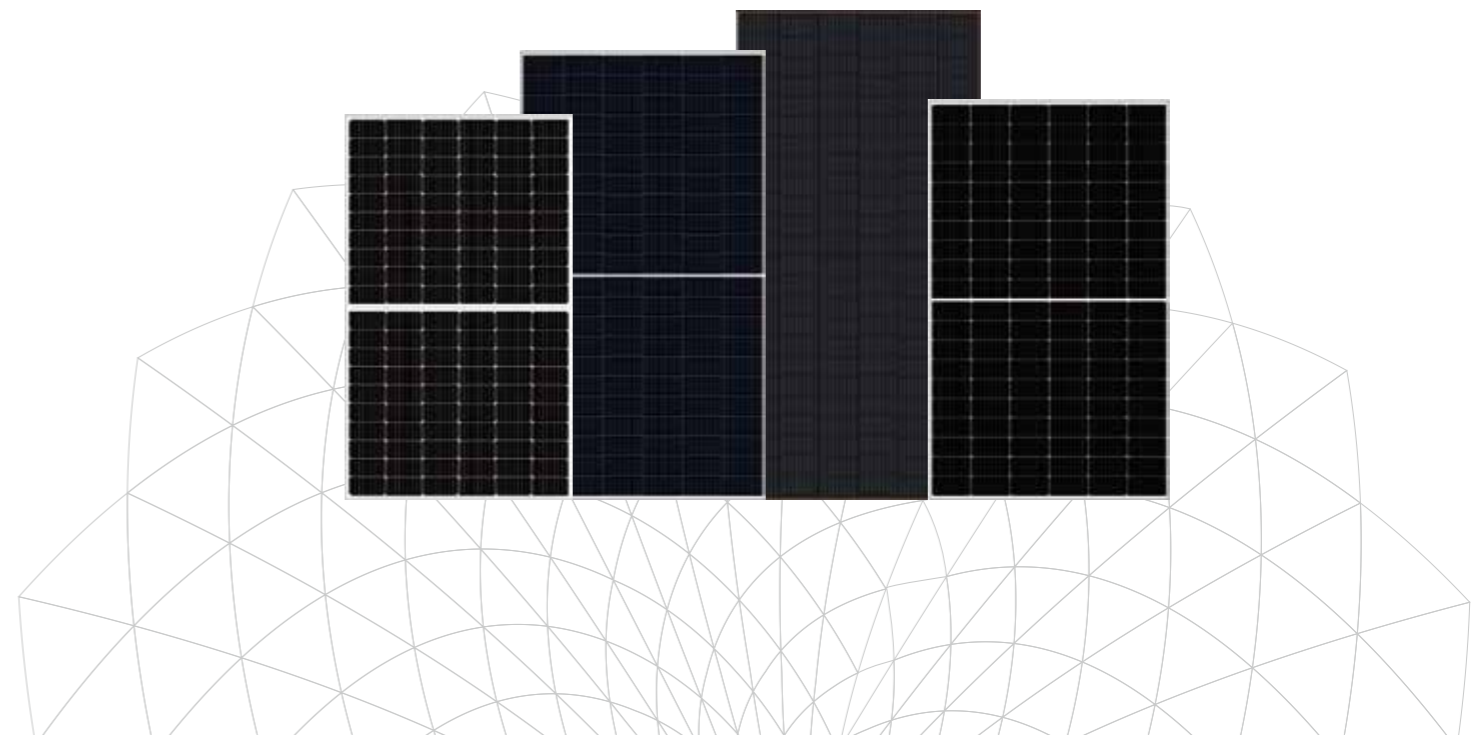
- Mechanical properties have passed rigorous tests, excellent weather resistance is suitable for a variety of scenes.
- Low Voc allows more modules per string, reduces the cost at the DC side and improves system efficiency.
- High-density encapsulation enhances weather resistance, excellent performance and reliability, designed for harsh environments.

Jinergy Design Series JDS

Develop the customized solar module

Jinergy design series product with the development concept of "Phenomenal Performance", focusing on the photovoltaic green and efficient application value, anchoring the differentiated product route, and creating extraordinary value. Based on the actual demand of customers, we are aiming at new application scenarios such as distributed and harsh environment to solve the application pain spot in specific environment. So far, we have developed all-black, light-weight, alloy steel, enhance solar modules, and so on.

Jinergy continues to improve the product ecology, with advanced technology as the core competitiveness, multi-dimensional release of efficient and reliable product value, continue to expand differentiated product solutions, mining product solutions with more application value, create a comprehensive product, to bring more valuable green decarbonization experience for customers.



Product Quality

Management System Certifications

- ISO9001:2015 Quality Management System
- ISO14001:2015 Environmental Management System
- ISO45001:2018 Occupational Health and Safety Management System
- ISO/IEC17025:2017 General Requirement for Testing and Calibrating Capabilities of Laboratory
- SA8000:2014 Social Accountability 8000 International Standard

Product Certifications

- Product certification: TUV, BIS, KS, CE, Carbon footprint
- Listed by: CEC(AU), INMETRO, JPAC, DEWA, SII, WEEE
- Passed the strict reliability test, Including salt-mist spray, ammonia, dust-and-sand, PID and LeTID.



National Accredited Laboratory

Performance and Environmental Reliability Tests



TUV SUD Qualified CTF(stage1)



System Certification



Product Certification



Product Listed



Social Responsibility

Green and low carbon has become the theme of the whole industry upgrading and development. With technology iteration, low-carbon construction, green production and other development ideas, Jinery restores the green value of photovoltaic as a clean energy, helping customers realize transformation of energy by low carbon photovoltaic, and transform energy for tomorrow.

Major Environmental Violations

0 times

The Number of Employees

2000+

Enrich Training Courses Annual Training

800 hours

Saving and Recycling



Control Recycling of Waste Treatment & Packaging Materials



Low-carbon Developed Concept



ACHIEVE CARBON PEAKING AND NEUTRALITY GOALS



Social Accountability 8000 International Standard



Eco-contributo RAEE assolto ove dovuto

Global Sales Network



Project Case

○ Large Solar Power Station

- ① 175MW solar project in Tianzhen, Shanxi, China
- ② 100MW Fishery-solar Hybrid project in Tianchang, Anhui, China
- ③ 110MW Fishery-solar Hybrid project in Chongming, Shanghai City, China



- ④ 110MW solar project in Macheng, Hubei, China
- ⑤ 100MW solar project in Shanyin, Shanxi, China
- ⑥ 435MW solar project in Jodhpur, India
- ⑦ 110MW solar project in Chunshou, Vietnam
- ⑧ 136MW solar project in Rajasthan, India

○ Distributed Solar Power Station

- ① Energy Storage Distributed solar project in Okinawa, Japan
- ② Commercial Rooftop Distributed solar project in Korea
- ③ Distributed solar project in Xinzhou, Shanxi, China
- ④ Commercial Rooftop Distributed solar project in Wenshui, Shanxi, China



- ⑤ Distributed solar project in Australia
- ⑥ Distributed solar project in Cyprus
- ⑦ Distributed solar project in Fangshan, Shanxi, China
- ⑧ Distributed solar project in Tianzhen, Shanxi, China
- ⑨ JTC Solar Farm Distributed solar project in Singapore