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Alibaba



**TRANSFORM
ENERGY**
FOR TOMORROW



Headquarters Jinzhong Production Base

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Wenshui Production Base

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Sales and R&D Center

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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

151.8 billion USD

Coal Capacity

468 million tons

Power Installed Capacity in Operation

23.28 GW

Wind and Solar Power Capacity

5.04 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 6.93 billion USD and total assets of 151.8 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



PV MODULE
RELIABILITY SCORECARD
PVEL TOP Performer



Listed BNEF Tier 1 PV
Module Supplier for many 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

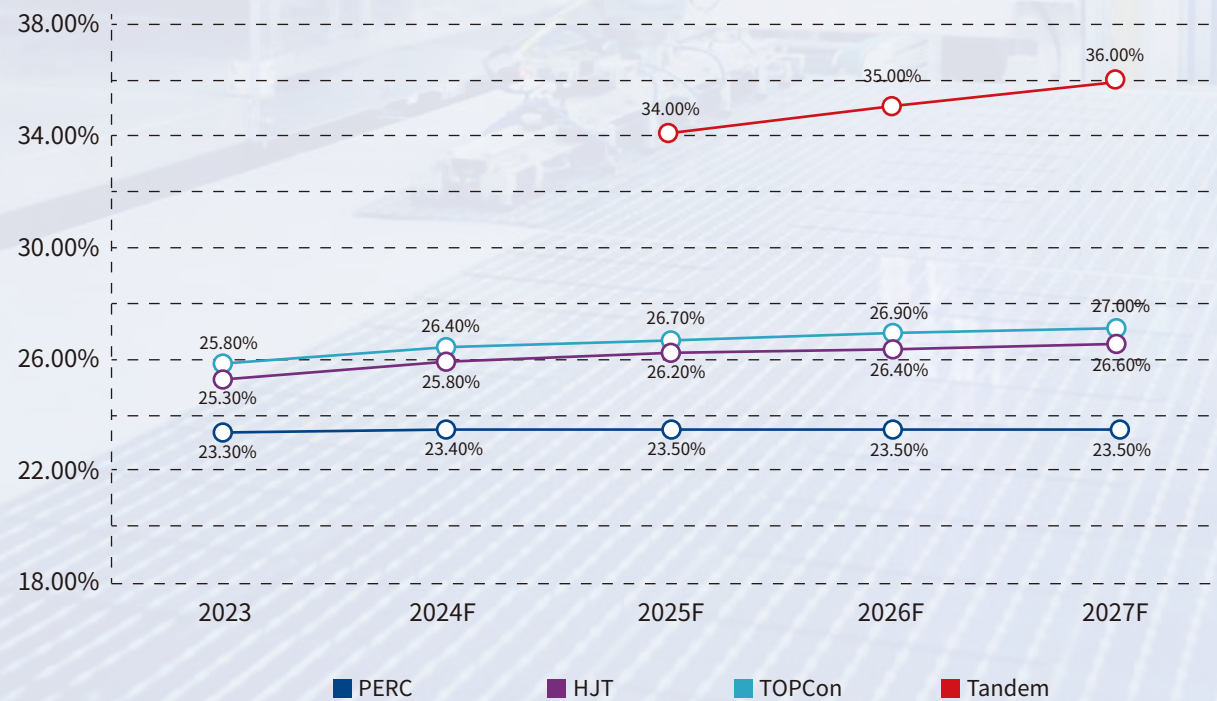


International Core
Management

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.

- **324** 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

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 Improve module efficiency and reliability
- SMBB metallization technology reduces series resistance losses and improves module reliability.
- Thinner busbars reduces shadow and conduction distance, increasing nominal power.

High Power PERC Solar Module



High Power & High Compatibility

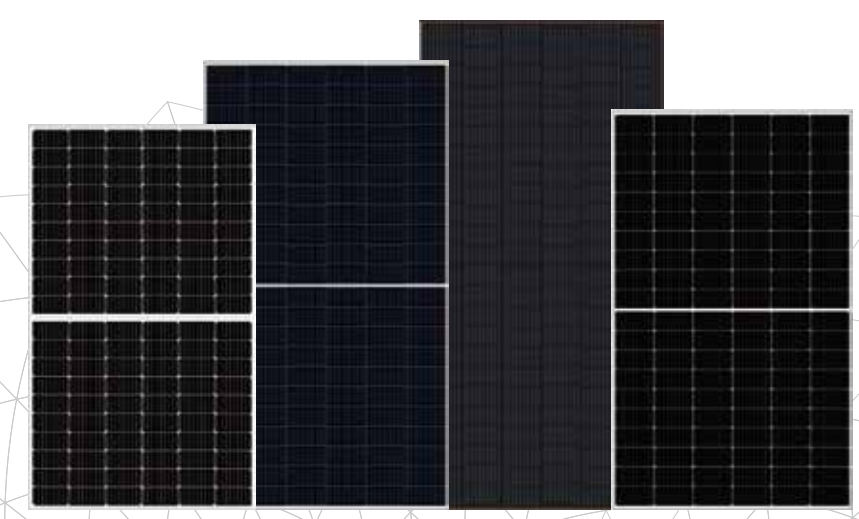
- Mechanical properties have passed rigorous tests, excellent weather resistance is suitable for a variety of scenes.
- Low Voc allows more modules per string, reduces the cost at the DC side and improves system efficiency.
- High-density encapsulation enhances weather resistance, excellent performance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

PHENOMENAL PERFORMANCE

Jinergy Design Series JDS Develop the customized solar module

Jinergy's design series products are developed with the concept of "Phenomenal Performance" in mind. Our focus is on providing efficient and environmentally-friendly photovoltaic solutions, while also differentiating ourselves from other products on the market and creating exceptional value for our customers. We strive to meet the specific needs of our customers, particularly in new application scenarios such as distributed and harsh environments, by addressing pain points and providing tailored solutions. Our product range includes all-black modules, lightweight modules, alloy steel modules, anti-dust modules, enhanced modules, offshore modules, and more.

We are constantly improving our product ecosystem, with advanced technology as our core competitive advantage. We are committed to delivering efficient and reliable products that meet the diverse needs of our customers, and we are continuously expanding our range of differentiated solutions to provide even more value. By mining for solutions with greater application value, we are able to create a comprehensive product range that offers a valuable green decarbonization experience for our 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, PVEL, 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 SÜD Qualified CTF(stage1)



TUV NORD Witness Laboratory

System Certification



Product Certification



Product Listed



Social Responsibility

"Green and low-carbon" has emerged as the primary focus of industrial advancement and growth. By incorporating technology innovation, low-carbon construction, and green production into its business practices, Jinergy has effectively integrated ESG principles into its development strategy. With a commitment to sustainable development through the principles of innovation, environmental consciousness, excellence, and efficiency, Jinergy aims to generate greater value in the field of photovoltaic energy as a clean source of energy. This will not only assist customers in achieving a more comprehensive approach to green and low-carbon energy usage, but also fulfill its social responsibility and contribute to the energy transformation.

Major Environmental
Violations

0 times

Saving and Recycling



The Number of
Employees

2000+

Control Recycling of Waste
Treatment & Packaging Materials



Enrich Training Courses
Annual Training

1500 hours

Low-carbon
Developed Concept



ACHIEVE CARBON PEAKING
AND NEUTRALITY GOALS



SA8000

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

- ❶ Energy Storage Distributed solar project in Okinawa, Japan
- ❷ Commercial Rooftop Distributed solar project in Korea
- ❸ Distributed solar project in Xinzhou, Shanxi, China
- ❹ Commercial Rooftop Distributed solar project in Wenshui, Shanxi, China



- ❺ Distributed solar project in Australia
- ❻ Distributed solar project in Cyprus
- ❼ Distributed solar project in Fangshan, Shanxi, China
- ❽ Distributed solar project f in Tianzhen, Shanxi, China
- ❾ JTC Solar Farm Distributed solar project in Singapore

