

Jetion Solar (China) Co., Ltd.

China - Headquarters

Jetion Solar (China) Co., Ltd.
No. 1011, Zhencheng Road, Shengang, Jiangyin,
Jiangsu Province 214443, P. R. China
Tel: +86 510 8668 7300 400-8868-659
Fax: +86 510 8668 7315
Email: marketing@jetion.com.cn

Global Branches

Liechtenstein

Jetion Solar (Europe) Ltd.
Industriering 10, FL - 9491 Ruggell, Liechtenstein
Tel: +423 265 3830
Fax: +423 265 3839
Email: marketing@jetion.com.cn

Italy

Jetion Solar (Europe) Ltd.
Viale dell'arte 19/A 00144 Roma Italy
Tel: +39 064814040
Fax: +39 064870559
Email: Jetionsolareuropeltd@pec.it

Thailand

Jetion Solar (Thailand) Co., Ltd.
Room 1602, 202 Le Concorde Tower, Ratchadaphisek Road,
Huay Kwang District, Bangkok 10310 Thailand
Tel: +66 2024 8702-4
Fax: +66 2024 8705
Email: marketing@jetion.com.cn

www.jetionsolar.com

Manufacturing Facilities

CNBM (Jiangyin) Photoelectric Material Technology Co., Ltd.

New material Industry Park, Huangtu, Jiangyin, Jiangsu
Province 214443, P. R. China

Jiangyin Fab - China

No. 1011, Zhencheng Road, Shengang, Jiangyin, Jiangsu
Province 214443, P. R. China

Haian Fab - China

Haian Industry Park, Haian, Nantong, Jiangsu Province
214443, P. R. China
Tel: +86 513 8878 5988

Tongcheng Fab - China

Beisan Road, Tongcheng Economic Development Zone,
Tongcheng, Anhui Province, P. R. China

Chonburi Fab - Thailand

Jetion Solar (Thailand) Co., Ltd.
83/44 Moo 10 Tambol Nongkham, Amphur Sriracha,
Chonburi 20230 Thailand

Jetion Solar company brochure 2023_11_Rev_EN



JETION SOLAR

COMPANY BROCHURE



CNBM



Visionary Green Energy

VISION

Reshape the world with unlimited solar energy.

MISSION

Empower the society with sustainable green energy,
create a better world.



CNBM

NOT JUST A BUSINESS GROUP, BUT ALSO NATIONAL CORNERSTONE

China National Building Materials Group Corporation (CNBM) was established through the merger of the China National Building Materials Group Corporation and China National Materials Group Corporation, with approval from the State Council, and then became a Central Enterprise under direct supervision of State-owned Assets Supervision and Administration Commission of the State Council. CNBM is the largest comprehensive building materials industry group in the world, and a leading new materials developer and integrated service provider throughout the world. It has been listed in the Fortune Global 500 for thirteen consecutive years.

Upholding the philosophy of "creating a better world with materials", CNBM is dedicated to fostering the concepts of "forging a nation with the spirit of greatness and the finest materials", "smart use of resources, services for construction", and adhering to the strategies of "development driven by innovation, empowered by reform, facilitated by internationalization and guided by Party building". CNBM is committed to building a world-class industrial investment group specializing in the material industry with global competitiveness.



CNBM

THREE CORE BUSINESS

BASIC BUILDING MATERIALS
 Cement, "Cement +" Business

NEW MATERIALS
 Light Weight Building Materials, Fiberglass, Carbon Fiber, New Glass Materials, Wind Turbine Blades, Lithium Battery Separator, Advanced Ceramics, Artificial Crystals

ENGINEERING & TECHNICAL SERVICES
 Overseas investment, Engineering construction, Extensive R&D services, Testing & Certification, "Vehicle Calling" Intelligent Logistics Platform, Cross-border e-commerce

- 14**
Listed companies
(2 oversea listed)
- 26**
National scientific
research & design
institutes
- 11**
National labs &
technology centers
- 10**
Academician
Workstation
- 17**
National standardization
technical committees
- 18**
National enterprise
technology centers



THE WORLD'S LARGEST
 comprehensive building
 materials group

WORLD NO. 1

Cement engineering technology service
Glass engineering technology service

30 GW Turbine Blades
 production capacity

3.5 million tons Fiberglass
 production capacity

500 million tons Cement Clinker
 production capacity

400 million m³ Ready-mix Concrete
 production capacity

3.36 billion m² Plasterboard
 production capacity

LEADING PRODUCER

- Carbon Fiber
- Thin-film solar
- New Glass Materials
- Float Glass
- Lithium Battery Separator
- Ultra-thin electronic glass
- UHV electrical porcelain
- Advanced Ceramics and Artificial Crystals

JETION SOLAR

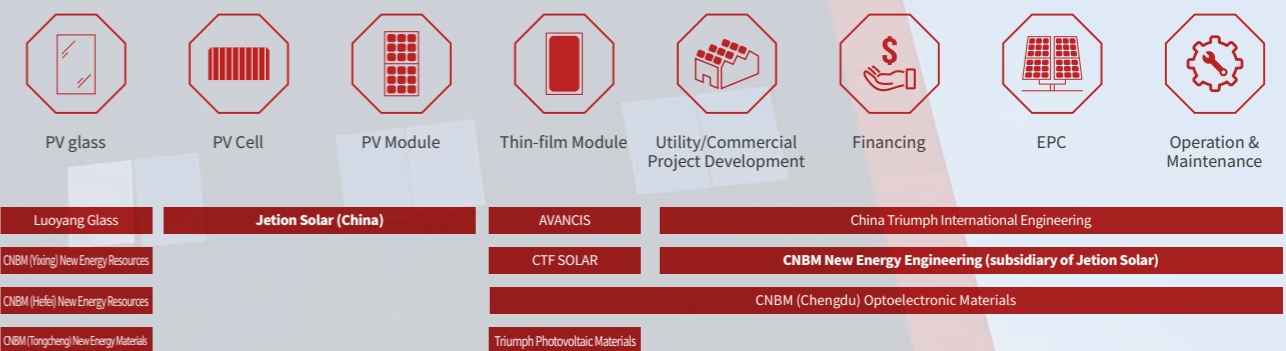
A WORLD-CLASS SOLAR PRODUCT MANUFACTURER

As a world-class solar products manufacturer, Jetion Solar specializes in research, development, production, and sales of solar PV products. Since its foundation in 2004, Jetion Solar has accomplished significant achievements which outpaced most of our main competitors in terms of production capacity and in the number of innovative designs. Jetion Solar upholds its belief that innovation is the key driver behind advancement by pursuing new technologies and higher efficiencies.

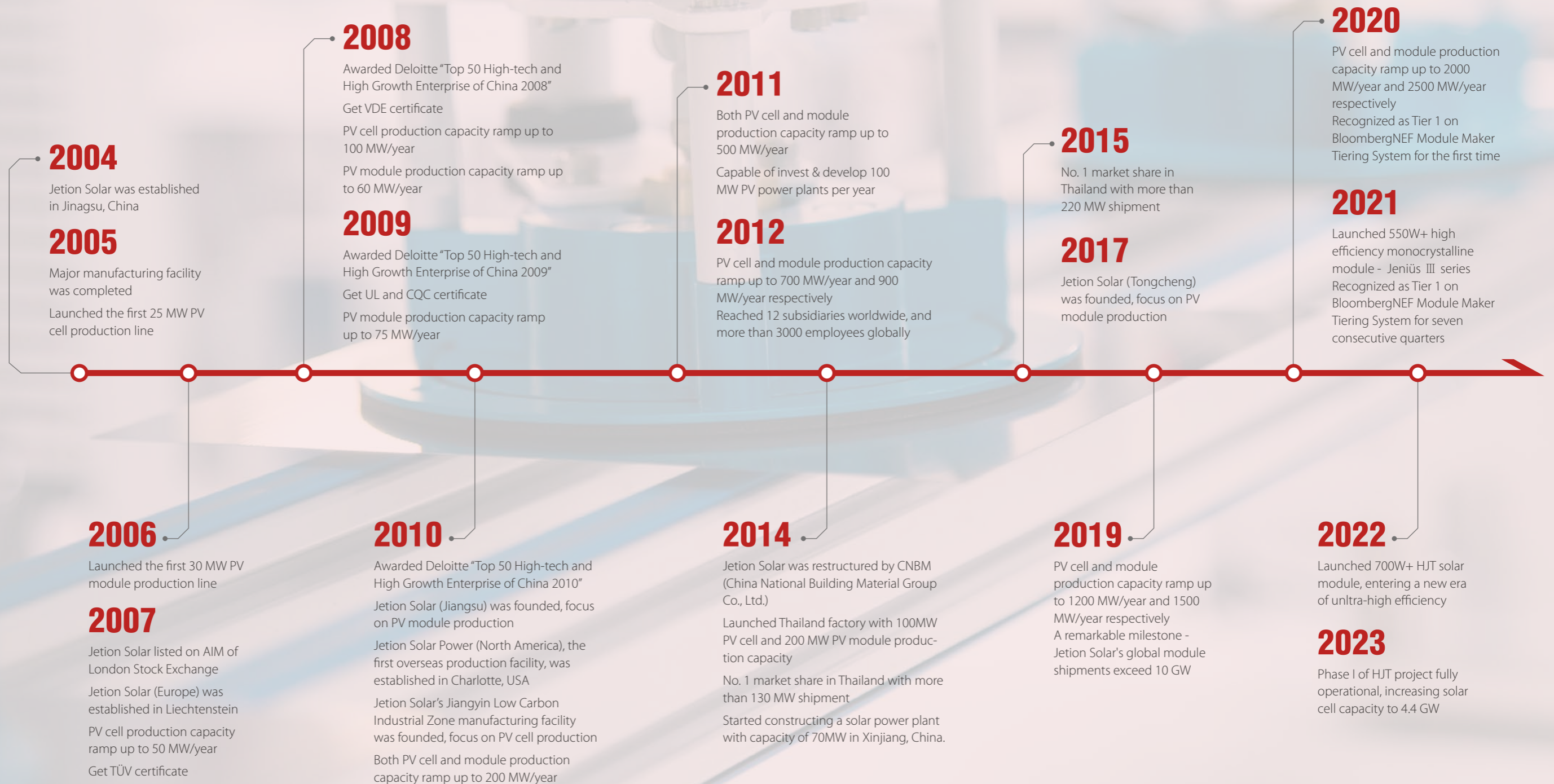
In 2014, Jetion Solar joined CNBM (China National Building Materials Group Corporation) to better extend our value chain. So far more than 15 GW Jetion Solar's products have been widely applied in over 60 countries and regions, earning a coveted "Tier 1" rating on BloombergNEF Module Maker Tiering System. And as backed by CNBM, Jetion Solar also provide global EPC service and project financing. Currently, Jetion Solar has an annual production capacity of 4.4 GW of cells, 2.5 GW of modules with 5 manufacturing plants in both domestic and Thailand. Furthermore, there are plans for an additional 2.6 GW of HJT cells. Jetion Solar serves worldwide customers with high-quality products and professional services.

CNBM's Solar Value Chain

From raw materials to project development, CNBM provides the whole PV value chain integration.



AMAZING DECADES



25%+
Cell Efficiency

284
Patents

150+
Global R&D Engineers

CTF Lab
Accredited by TÜV SÜD Germany

CNAS Lab

WMTC Lab
US Accredited by CSA

LEADING TECHNOLOGY

With a full array of exciting solar energy technologies, Jetion Solar's strong innovation continues to help customers to meet their goals. From utilities to commercial and industrial customers, we work with the unique needs of each customer, site, and application to deliver the right products and services.

Jetion Solar has been investing continuously in solar product innovations by upgrading our laboratory equipment and employing promising R&D talents. Our emphasis on product innovation has allowed us to remain at the technological forefront of the solar PV industry.

QUALITY MANAGEMENT

Stringent quality control is the cornerstone of Jetion Solar's manufacturing. Our customers have come to expect uncompromising quality standards in our products. To meet this expectation of high quality, we continue to invest in state of the art equipment and professional training of our employees. We are proud of our product quality and their reliable performance even in the most extreme conditions.

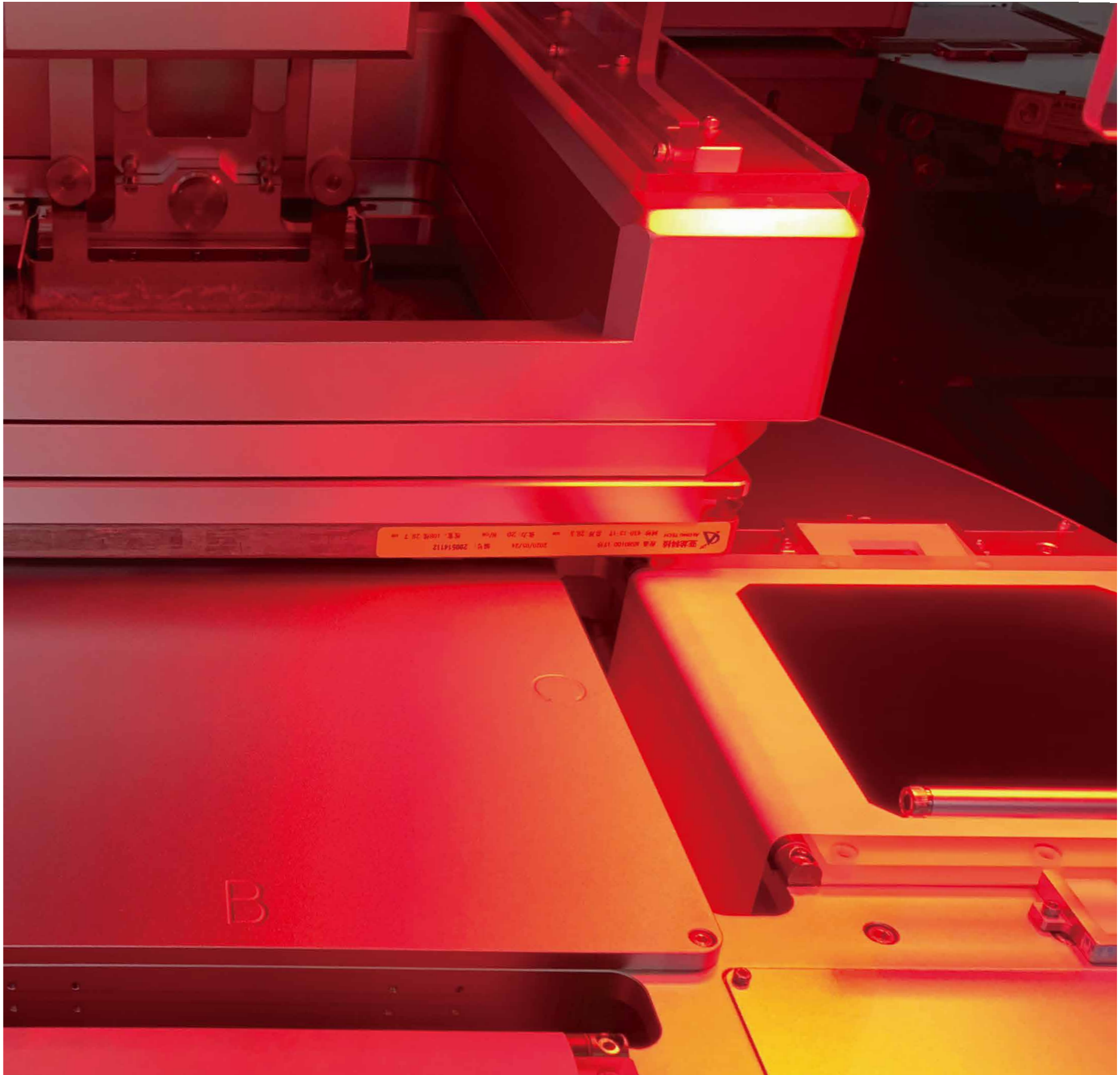
Jetion Solar has received certifications :

- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety
- IEC 62941: Quality Management System

Jetion Solar (Tongcheng) has received certifications :

- ISO 50001: Energy Management System

Certificates



MANUFACTURING EXCELLENCE

Jetion Solar produces quality ensured cells and a wide range of PV modules suitable for all system types: residential, commercial, industrial, and utility. And all Jetion Solar's modules have proven their high performance and lasting reliability in the field, where it matters the most.

Besides, our manufacturing execution system enables us to keep the balance through all the processes, including production scheduling, stock control, production and products delivery. We are committed to collaborating with R&D, production and sales & marketing with real-time and cross-regional communication.

2 GW

PERC CELL CAPACITY

2.4 GW

HJT CELL CAPACITY

2.5 GW

MODULE CAPACITY

Jeniüs III high-efficiency monocrystalline series

JT 540-555 SGh/SSh(B)

Jeniüs IV high-efficiency monocrystalline series

JT 650-670 SFk/SLk(B)



PERC technology
The PERC technology features were the reduction of rear surface recombination by a combination of dielectric surface passivation and reduced metal/semiconductor contact area while simultaneously increasing rear surface reflection by use of a dielectrically displaced rear metal reflector.



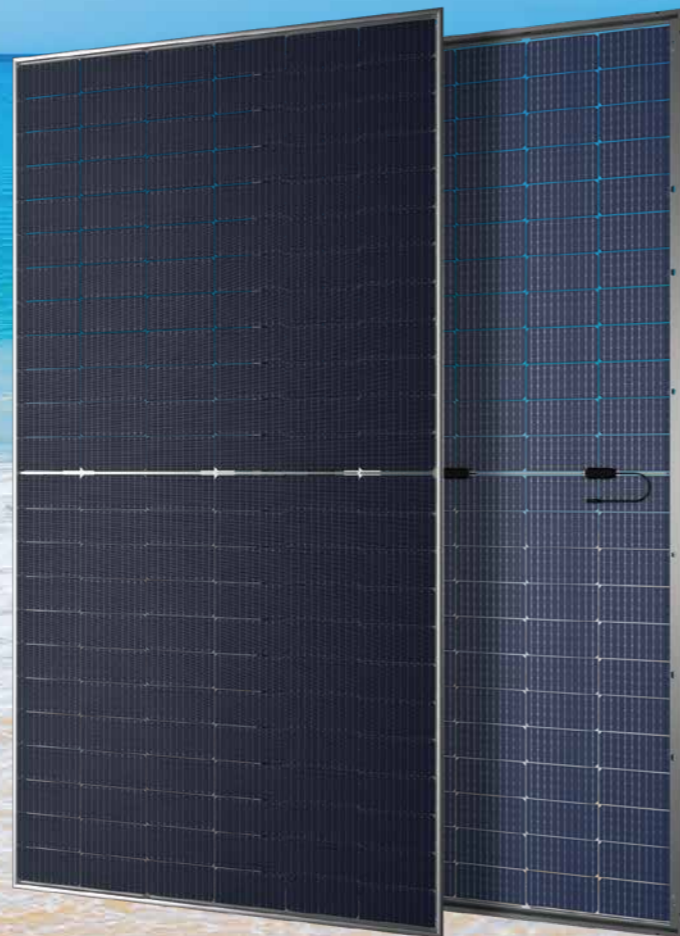
Split module design
Better performance in shading conditions with split module design.



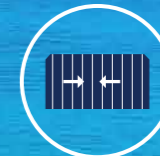
Ultra high strength frame
Specially designed for "Jeniüs III" bifacial dual-glass series, passed 7200 Pa (front) mechanical load test, reducing shading with no C side design for short frame. (Note: *120 Cells series)



Half-cut cell technology
Through reducing length of cell spacing, two half-cut cells can provide higher electric current, thus enhance 3% of power output. The output of two 10 bus-bar half-cut cells is even higher than one 12 bus-bar full cell.



Bifacial cell technology
Generate electricity from backside of solar cell with environmental light reflections, brings additional 5%-25% more power generation.



MBB cell technology
Increased cell bus-bar means more paths for electric charges, so there would be less resistance losses and more emitted electrons can be captured, thus it can increase power output by 2%.



1500V DC
High system voltage of J-box and glasses, reduce PV system cost.



Special frame design with anti-fouling patent
155-degree angle, excellent anti-fouling performance, improve long-term power generation performance.

JT 540-555 SSh(B)					JT 655-670 SFk				
Maximum Power Pmax (W)	540	545	550	555	655	660	665	670	
Module Efficiency (%)	20.9%	21.1%	21.3%	21.5%	21.1%	21.2%	21.4%	21.6%	
Dimensions / Weight	2278×1134×30 mm / 32kg				2384×1303×35 mm / 32.7kg				
Number of Cells	144 [2 x (12 x 6)]				132 [2 x (11 x 6)]				

For more versions, please visit: www.jetionsolar.com

The specification described in this document may deviate slightly. Jetion Solar (China) Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice.

TOPCon ultra-high efficiency monocrystalline series

JT 565-580 SSt(B)

HJT ultra-high efficiency monocrystalline series

JT 695-715 SLk(B)



Advanced TOPCon technology
MBB N-type TOPCon solar cell, higher power output, Better anti-LID & LETID performance.



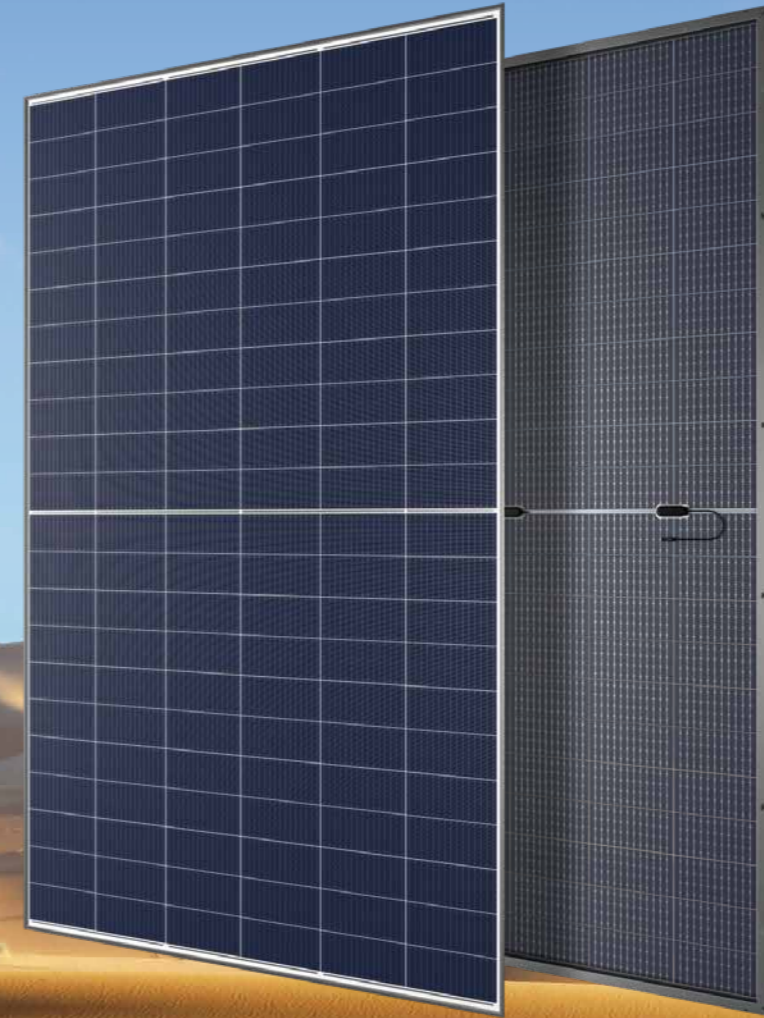
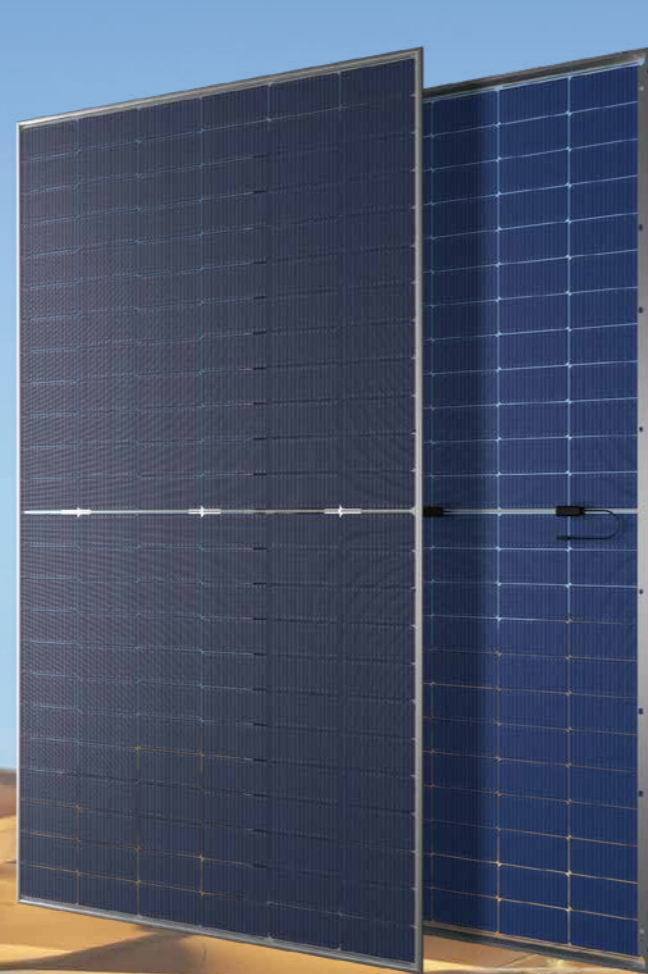
MBB cell technology
Increased cell bus-bar means more paths for electric charges, so there would be less resistance losses and more emitted electrons can be captured, thus it can increase higher power output.



Split module design
Better performance in shading conditions with split module design.



Half-cut cell technology
Current density reduced by 1/2, internal power losses reduced to 1/4 of conventional modules, rated output power increased by 5-10W.



Leading HJT Technology
A fusion of N-type wafer-based solar cell technology and thin-film PV, high-efficiency cell structure and special anti-reflective glass increase higher power output.



Bifacial cell technology
Bifaciality 80%, brings additional 5%-30% more power generation, lower LCOE.



Industry leading warranty
Anti-LID & PID, high reliability and longer lifetime
30 years linear performance warranty<12%.



Special frame design with anti-fouling patent
155-degree angle, excellent anti-fouling performance, improve long-term power generation performance.

JT 565-580 SSt(B)				
Maximum Power Pmax (W)	565	570	575	580
Module Efficiency (%)	21.9%	22.1%	22.3%	22.5%
Dimensions / Weight	2278x1134x30 mm / 32kg			
Number of Cells	144 [2 x (12 x 6)]			

JT 695-715 SLk(B)					
Maximum Power Pmax (W)	695	700	705	710	715
Module Efficiency (%)	22.4%	22.5%	22.7%	22.9%	23.0%
Dimensions / Weight	2384x1303x35 mm / 38.4kg				
Number of Cells	132 [2 x (11 x 6)]				

For more versions, please visit: www.jetionsolar.com

The specification described in this document may deviate slightly, JETION Solar (China) Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice.

PROJECT TRACK RECORDS

OUR RELIABILITY IS PROVEN BY OUR RESULTS

Our accomplishments have taken us from the Pacific Rim to the Europe and Americas. That growth stems from our persistent technology innovation in the past 19 years. And in fact that we deliver integrated, efficient solutions across the entire value chain, including PV products, global EPC services and project financing.



1
219 MWp

 **Riccardo Totta PV Plant (solara4)**  **Alcoutim, Portugal**

Riccardo Totta PV plant is the largest in Portugal, and among the largest unsubsidized projects built so far in Europe. Jetion Solar supplied more than 660,000 pieces of JT PAg polycrystalline PV modules. It will generate enough energy to power 200,000 homes after connected to the grid in October, 2021.





2

98 MWp


Titan Solar 1

California, USA

The 98 MWdc Titan Solar 1 Energy Project is situated on a 569-acre parcel in Imperial County, California, and achieved the commercial operation date in Dec, 2020. The project will generate over 218,000 MWh per year, which is enough to power over 26,900 homes annually.



4

86 MWp


Solar-storage Project

Xigaze, Tibet

The project is a behemoth, clocking in at 40 MW of solar and 193 MWh of energy storage, and EPC was provided by CNBM New Energy Engineering who is affiliated with Jetion Solar. Until now, it is one of the world's highest altitude and largest installed capacity solar-storage projects. This project has been successfully connected to the grid in September, 2020.


Alpha

Poland

Alpha project is a special portfolio PV project, which consists of 86 individual 1MW PV plants spread across Poland. The project contributes actively to helping Poland towards carbon neutral energy, and achieved the commercial operation date in June, 2022.



3

183.57 MWp


Puerto Real 1&2

Cádiz, Spain

Puerto Real project with a total planned capacity of 223 MW is one of the largest unsubsidized utility-scale solar power plants currently constructed in Spain. Puerto Real 1&2 comprise more than 500,000 pieces of PERC modules supplied by Jetion Solar, and it has been officially connected to the grid in March, 2021 and October, 2022 respectively.



6

50 MWp


Minbu PV Plant

Minbu, Myanmar

Minbu PV Plant is the first utility-scale and also the largest PV project in Myanmar. It covers about 200 acres and will supply power to over 60,000 households in Magway with any excess power fed into Myanmar's national grid. The project has been successfully connected to the grid in June, 2019.



5

40 MWp

ACHIEVEMENT SPEAKS FOR ITSELF

We continuously expand our business and promote our latest technology and products, to strengthen our leading position in the PV industry.

FORTUNE 500

Ranked #247 in 2023

CNBM - Jetion Solar's parent company has been listed in FORTUNE Global 500 for 13 consecutive years, with ranking from #485 in 2011 to #247 in 2023.

25.84%

Cell efficiency

Jetion Solar R&D team applies self-developed core patented cell technologies, such like phosphorus gettering, high cleanliness cleaning, i-a-Si passivation, μ c-Si thin film, etc., and expected to realize mass production of cell efficiency with more than 25.84%.

TIER 1

Ranked by **Bloomberg**
New Energy Finance

Jetion Solar is recognized as Tier 1 PV module manufacturer by BloombergNEF PV Module Maker Tiering System. With solid bankability, Jetion Solar is your reliable world-wide partner.

284

Patents

Jetion Solar continues to lead the cutting-edge photovoltaic technology, with forward-looking vision and advanced technology to promote industry transformation and upgrading.

TOP 20

Global PV capacity

Jetion Solar has 4.4 GW of cell and 2.5 GW of module capacity with factories in China and Thailand. Furthermore, there are plans for an additional 2.6 GW of HJT cells.

15 GW+

Cumulative module shipment

Since 2005, Jetion Solar has shipped more than 15GW of photovoltaic modules globally.
(Note: *Data as of the end of 2022)

TOP 50

Ranked by **Deloitte**
Technology Fast 50

Awarded Deloitte "Top 50 High-tech and High Growth Enterprise of China" for 3 consecutive years.

60+





Countries and regions

As of 2022, Jetion Solar's products have been widely applied in over 60 countries and regions in Europe, Asia Pacific, America and Africa.

GLOBAL PRESENCE

As a world's leading renewable energy solution provider, we will continue to expand our global network, including production, R&D, logistics, sales and service networks to meet the customers' needs around the world.



-  Headquarter
-  Manufacturing Plants
-  Branches & Offices
-  Warehouses

SUSTAINABLE DEVELOPMENT

As a pioneer and leader of solar industry, Jetion Solar plays an important role in sustainable development. We are committed to contributing the society with green energy, and we expect Jetion Solar could bring lasting and positive impact for the human beings.

