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www.jetionsolar.com

Manufacturing Facilities

Jiangyin Fab 1 - China

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Province 214443, P. R. China

Jiangyin Fab 2 - China

No. 88, Shentai Road, Ligang, Jiangyin, Jiangsu Province,
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

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Chonburi 20230 Thailand

Jetion Solar company brochure 2022_02_Rev_EN



JETION SOLAR

COMPANY BROCHURE



VISION

Reshape the world with unlimited solar energy.

MISSION

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

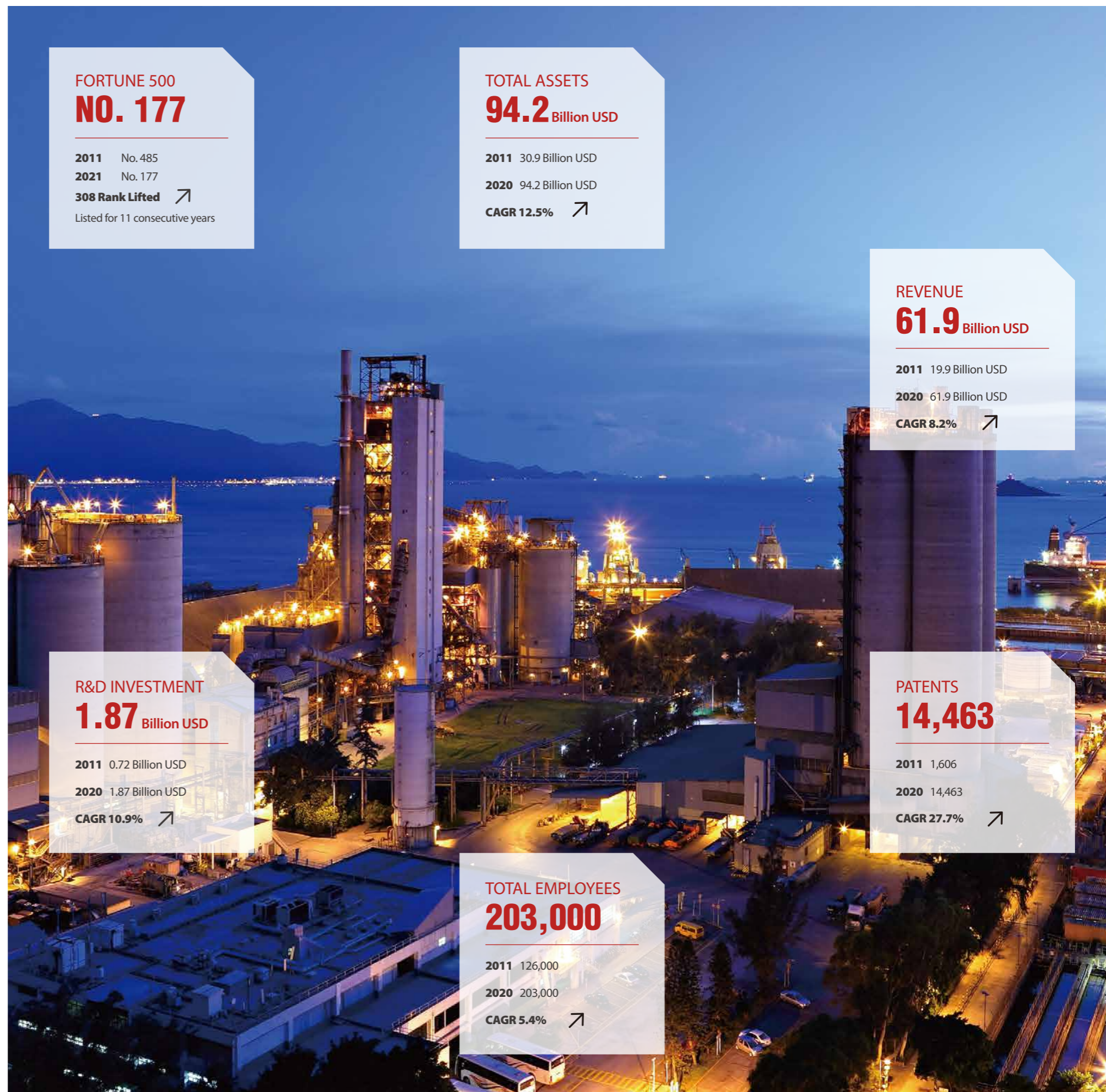


CNBM

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 eleven consecutive years.

Upholding the philosophy of "Making Best Use of Resources to Serve Construction", and vigorously carrying out such strategies as "technical innovation", "internationalization of building materials", and "building strength with talents", CNBM is the largest comprehensive building materials industry group in China that integrates scientific research, manufacturing and logistics into one entity, and consists of four business platforms, i.e. industry, technology, complete set of equipment, and trading & logistics.



CNBM

EXPERIENCE THE POWER OF GLOBAL COMPANY OPERATING AS ONE

Six Business Segments of CNBM

- Basic Building Material Platform
Cement & ready-mix concrete production
- International Capacity Cooperation Platform
Cement & glass engineering, mine engineering, cogeneration engineering, etc.
- Three-New Industries Platform
New Energy – solar PV
New Material – wind turbine blades, carbon fiber, fiber glass, new glass, refractories
New Housing
- National Material Scientific Research Platform
- National Mining Resources Platform
- Financial Investment & Operation Platform

13

Listed companies
(2 oversea listed)

26

National scientific
research & design
institutes

11

National labs &
technology centers

9

Academician
Workstation

33

National industrial
quality inspection
centers

17

National standardization
technical committees

17

National enterprise
technology centers

17

Post-Doctoral
Research Station

THE WORLD'S LARGEST
comprehensive building
materials group

WORLD NO. 1

Cement engineering technology service

Glass engineering technology service

15.2 GW Turbine Blades
production capacity

3.01 million tons Fiberglass
production capacity

510 million tons Cement Clinker
production capacity

450 million m³ Ready-mix Concrete
production capacity

2.8 billion m² Plasterboard
production capacity

CHINA NO. 1

**Ultra-high voltage electrical
porcelain producer**

35,000 tons Ultra-high voltage electrical
porcelain production capacity

3,430 tons Carbon fiber
production capacity

30 million m² Ultra-thin Electronic Glass
production capacity

3 GW Thin-film Module
production capacity



JETION SOLAR

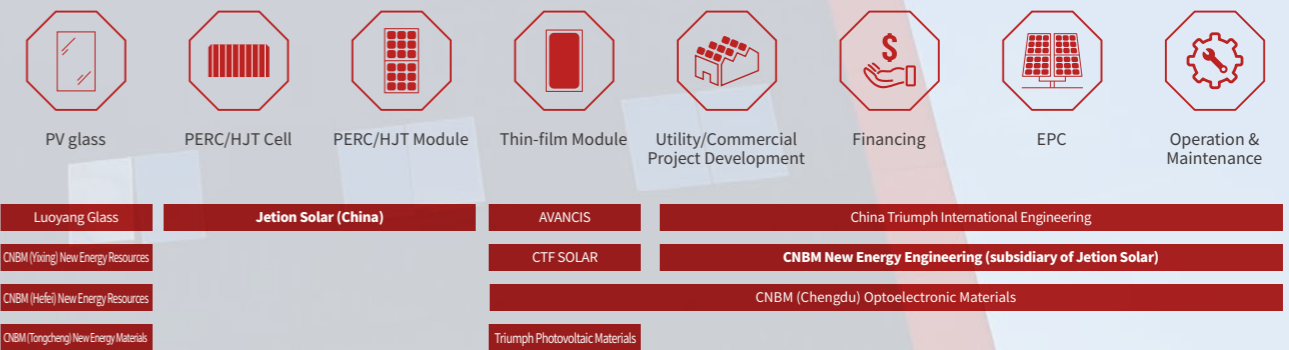
A WORLD-CLASS SOLAR PRODUCT MANUFACTURER

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 10GW Jetion Solar's products have been widely applied in over 58 countries and regions. And as backed by CNBM, Jetion Solar also provide global EPC service and project financing. Currently, Jetion Solar has a global production capacity of 2.5 GW with 5 manufacturing plants in both domestic and Thailand. In 2021, Jetion Solar announced plans to invest \$460 million to build a 5GW heterojunction (HJT) factory. 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

213+
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 :

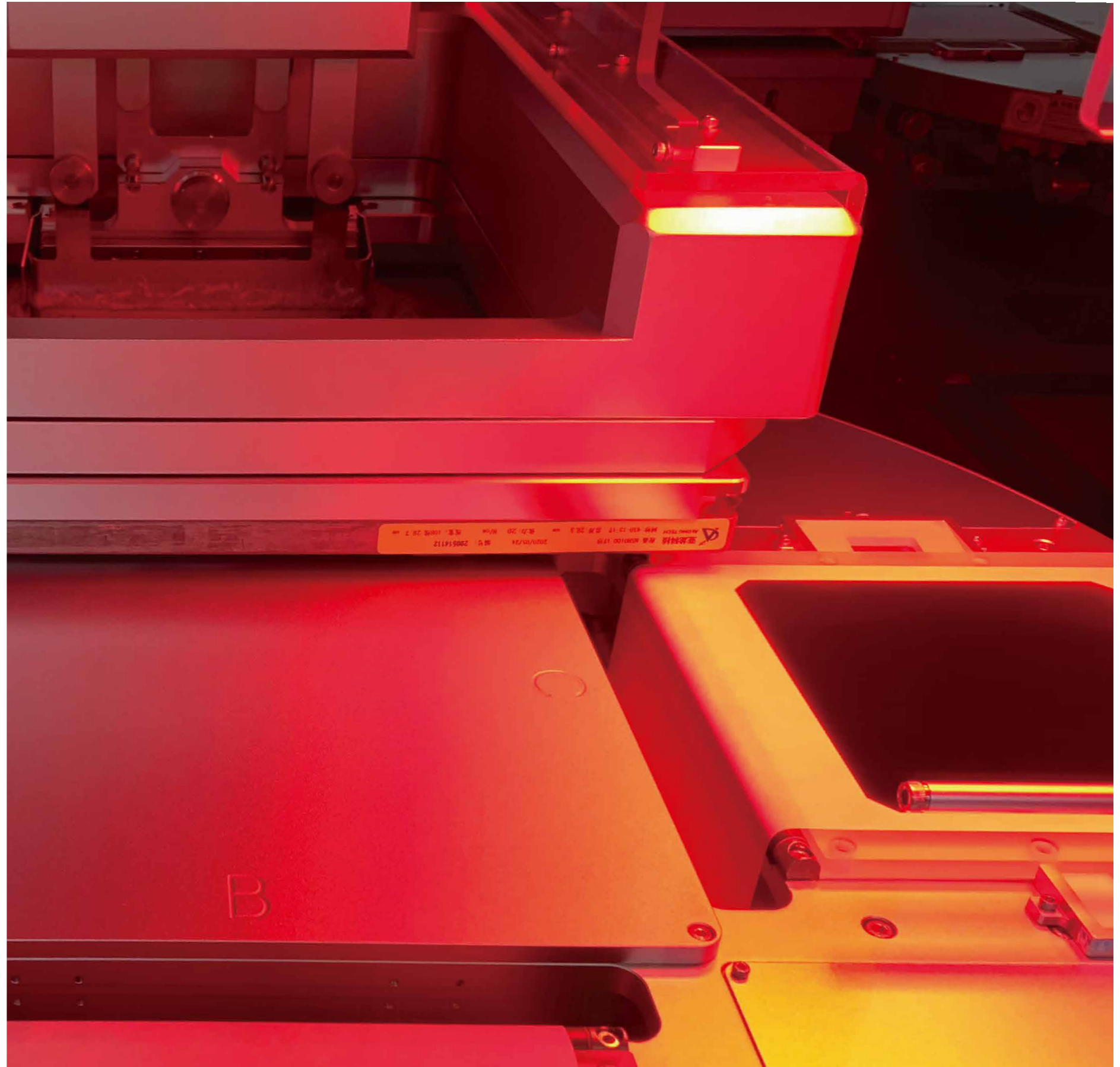
ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety

IEC 62941: Design and Manufacture of Crystalline Silicon Photovoltaic Modules

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

CRYSTALLINE SILICON
CELL CAPACITY

5 GW

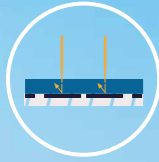
HJT CELL CAPACITY

2.5 GW

MODULE CAPACITY

Jeniüs II high-efficiency monocrystalline series

JT365-380SHh JT445-460SGh



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.



9 busbar 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%.



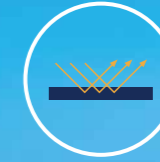
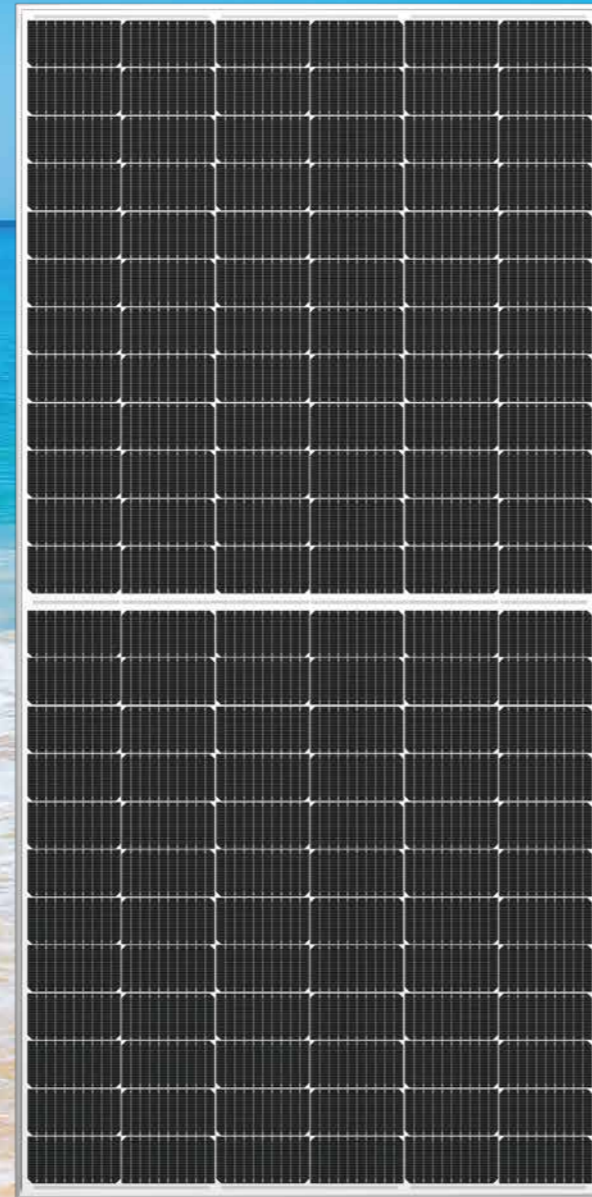
Split module design

Better performance in shading conditions with split module design



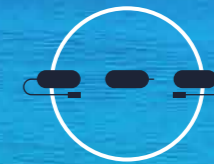
Half-cut cell technology

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 9 bus-bar half-cut cells is even higher than one 12 bus-bar full cell.



Anti-UV

Backsheet with Fluoride on both sides, resistant to ultraviolet radiation, ensure long-term stable operation of modules.



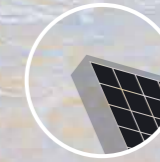
1500V DC

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



Ultra high strength frame

Specially designed to withstand 2400Pa – 5400Pa mechanical load.

JT 365-380 SHh

Maximum Power Pmax (W)	365	370	375	380
Module Efficiency (%)	20.0%	20.3%	20.6%	20.9%
Dimensions / Weight	1755x1038x35 mm / 20kg			
Number of Cells	120 [2 x (10 x 6)]			

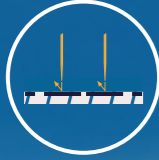
JT 445-460 SGh

Maximum Power Pmax (W)	445	450	455	460
Module Efficiency (%)	20.5%	20.7%	20.9%	21.2%
Dimensions / Weight	2094x1038x35 mm / 24kg			
Number of Cells	144 [2 x (12 x 6)]			

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.

Jeniüs III high-efficiency monocrystalline bifacial series

JT440-455SIh(B) JT535-550SSh(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.



10 busbar 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%.



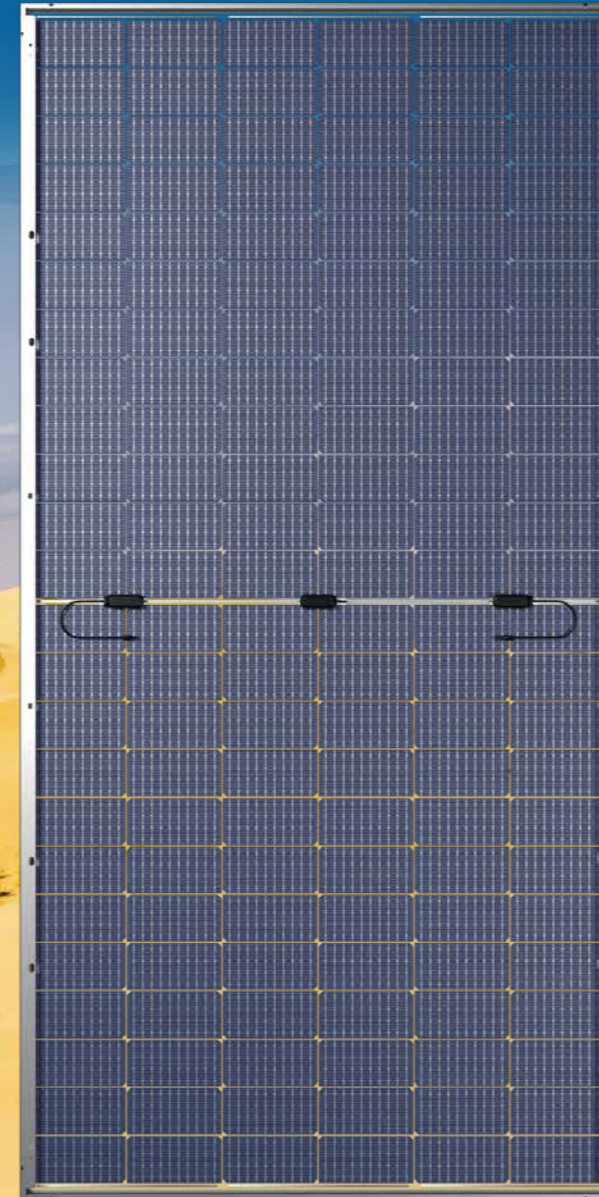
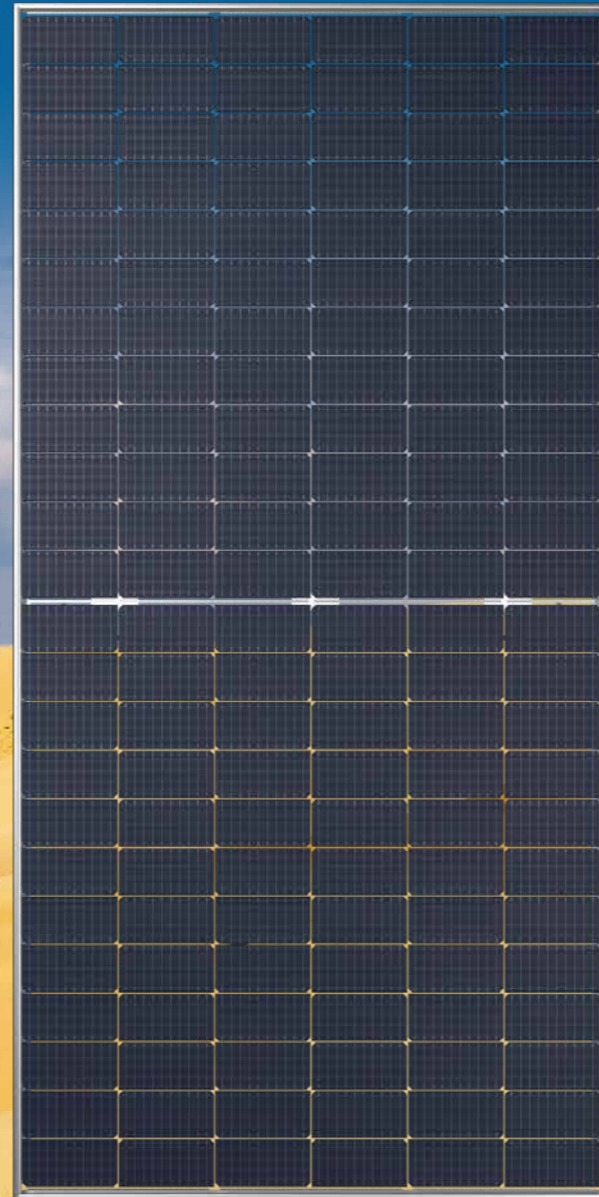
Split module design

Better performance in shading conditions with split module design



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.



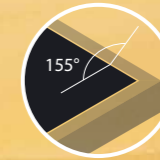
1500V DC

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



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)



Special frame design with anti-fouling patent

155-degree angle, excellent anti-fouling performance, improve long-term power generation performance

JT 440-455 SIh(B)

Maximum Power Pmax (W)	440	445	450	455
Module Efficiency (%)	20.3%	20.6%	20.8%	21.0%
Dimensions / Weight	1908×1134×30 mm / 28.5kg			
Number of Cells	120 [2 x (10 x 6)]			

JT 535-550 SSh(B)

Maximum Power Pmax (W)	535	540	545	550
Module Efficiency (%)	20.7%	20.9%	21.1%	21.3%
Dimensions / Weight	2279×1134×35 mm / 34.2kg			
Number of Cells	144 [2 x (12 x 6)]			

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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 17 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

46 MWp


Ourika

Ourique, Portugal

Ourika project is the largest subsidy-free PV project of Europe in 2018. The project covers 100 hectares and comprises 142,000 pieces of JT PAg polycrystalline PV panels. Ourika achieved the commercial operation date in June, 2018.



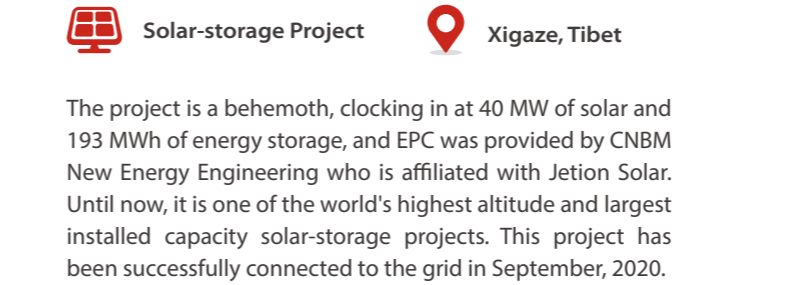
3



133.57 MWp


Puerto Real 1

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 comprises more than 330,000 pieces of PERC modules supplied by Jetion Solar, and it has been officially connected to the grid in March, 2021.




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.



5

40 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.



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.

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 #177 in 2021

CNBM - Jetion Solar's parent company has been listed in FORTUNE Global 500 for 11 consecutive years, with ranking from #485 in 2011 to #177 in 2021.

25%+

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, $\mu\text{-Si}$ thin film, etc., and expected to realize mass production of cell efficiency with more than 25%.

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.

213

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 module capacity

Jetion Solar has 2 GW of cell and 2.5 GW of module capacity with factories in China and Thailand.

(Source: *BNEF 4Q 2021 Global PV Market Outlook)

10 GW+

Cumulative module shipment

Since 2005, Jetion Solar has shipped more than 10GW of photovoltaic modules globally.

(Note: *Data as of the end of 2021)

TOP 50

Ranked by **Deloitte**
Technology Fast 50

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

58





Countries and regions

As of 2021, Jetion Solar's products have been widely applied in over 58 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.

