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Global Branches

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www.jetionsolar.com

Manufacturing Facilities

Jiangyin Fab 1 - China

No. 1011, Zhencheng Road, Shengang, Jiangyin, Jiangsu
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

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

Jetion Solar company brochure 2020_11_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 ten 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

14

Listed companies
(2 oversea listed)

26

National scientific
research & design
institutes

9

National labs &
technology centers

10

Academician
Workstation

33

National industrial
quality inspection
centers

19

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

16 GW

Turbine Blades
production capacity

2.74 million tons

Fiberglass
production capacity

520 million tons

Cement Clinker
production capacity

460 million m³

Ready-mix Concrete
production capacity

2.7 billion m²

Plasterboard
production capacity

CHINA NO. 1

**Ultra-high voltage electrical
porcelain producer**

1.5 billion m²

Lithium Battery Separator
production capacity

3,600 tons

Carbon fiber
production capacity

38 million m²

Ultra-thin Electronic Float
Glass production capacity

649,000 tons

Fused Cast Refractory
production capacity

JETION SOLAR

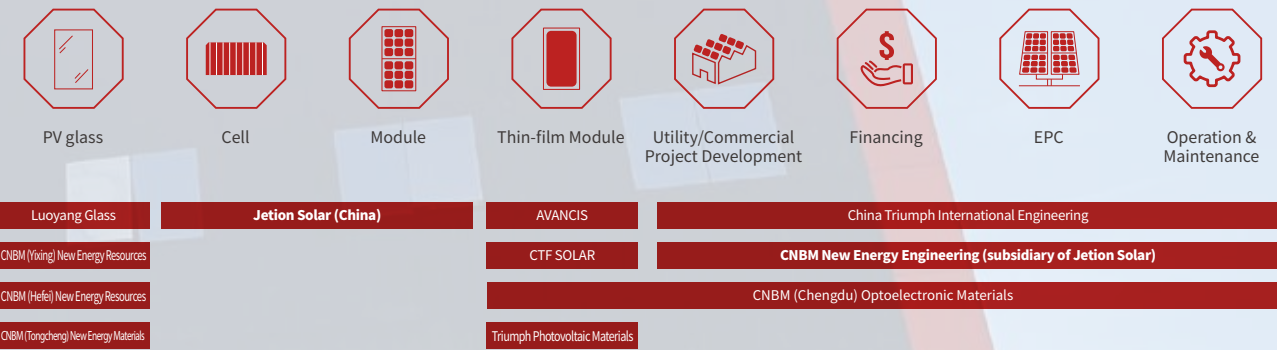
A WORLD-CLASS SOLAR PRODUCT MANUFACTURER

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. Jeiton 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. 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

2004

Jetion Solar was established in Jinagsu, China

2005

Major manufacturing facility was completed
Launched the first 25 MW PV cell production line

2006

Launched the first 30 MW PV module production line

2007

Jetion Solar listed on AIM of London Stock Exchange
Jetion Solar (Europe) was established in Liechtenstein
PV cell production capacity ramp up to 50 MW/year
Get TUV certificate

2008

Awarded Deloitte "Top 50 High-tech and High Growth Enterprise of China 2008"
Get VDE certificate
PV cell production capacity ramp up to 100 MW/year
PV module production capacity ramp up to 60 MW/year

2009

Awarded Deloitte "Top 50 High-tech and High Growth Enterprise of China 2009"
Get UL and CQC certificate
PV module production capacity ramp up to 75 MW/year

2010

Awarded Deloitte "Top 50 High-tech and High Growth Enterprise of China 2010"
Jetion Solar (Jiangsu) was founded, focus on PV module production
Jetion Solar Power (North America), the first overseas production facility, was established in Charlotte, USA
Jetion Solar's Jiangyin Low Carbon Industrial Zone manufacturing facility was founded, focus on PV cell production
Both PV cell and module production capacity ramp up to 200 MW/year

2011

Both PV cell and module production capacity ramp up to 500 MW/year
Capable of invest & develop 100 MW PV power plants per year

2012

PV cell and module production capacity ramp up to 700 MW/year and 900 MW/year respectively
Reached 12 subsidiaries worldwide, and more than 3000 employees globally

2014

Jetion Solar was restructured by CNBM (China National Building Material Group Co., Ltd.)
Launched Thailand factory with 100MW PV cell and 200 MW PV module production capacity
No. 1 market share in Thailand with more than 130 MW shipment
Started constructing a solar power plant with capacity of 70MW in Xinjiang, China.

2015

No. 1 market share in Thailand with more than 220 MW shipment

2016

PV cell and module production capacity ramp up to 1000 MW/year and 1200 MW/year respectively

2017

Jetion Solar (Tongcheng) was founded, focus on PV module production

2019

PV cell and module production capacity ramp up to 1200 MW/year and 1500 MW/year respectively

2020

PV cell and module production capacity ramp up to 2000 MW/year and 2500 MW/year respectively

**23.0%+**
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 :

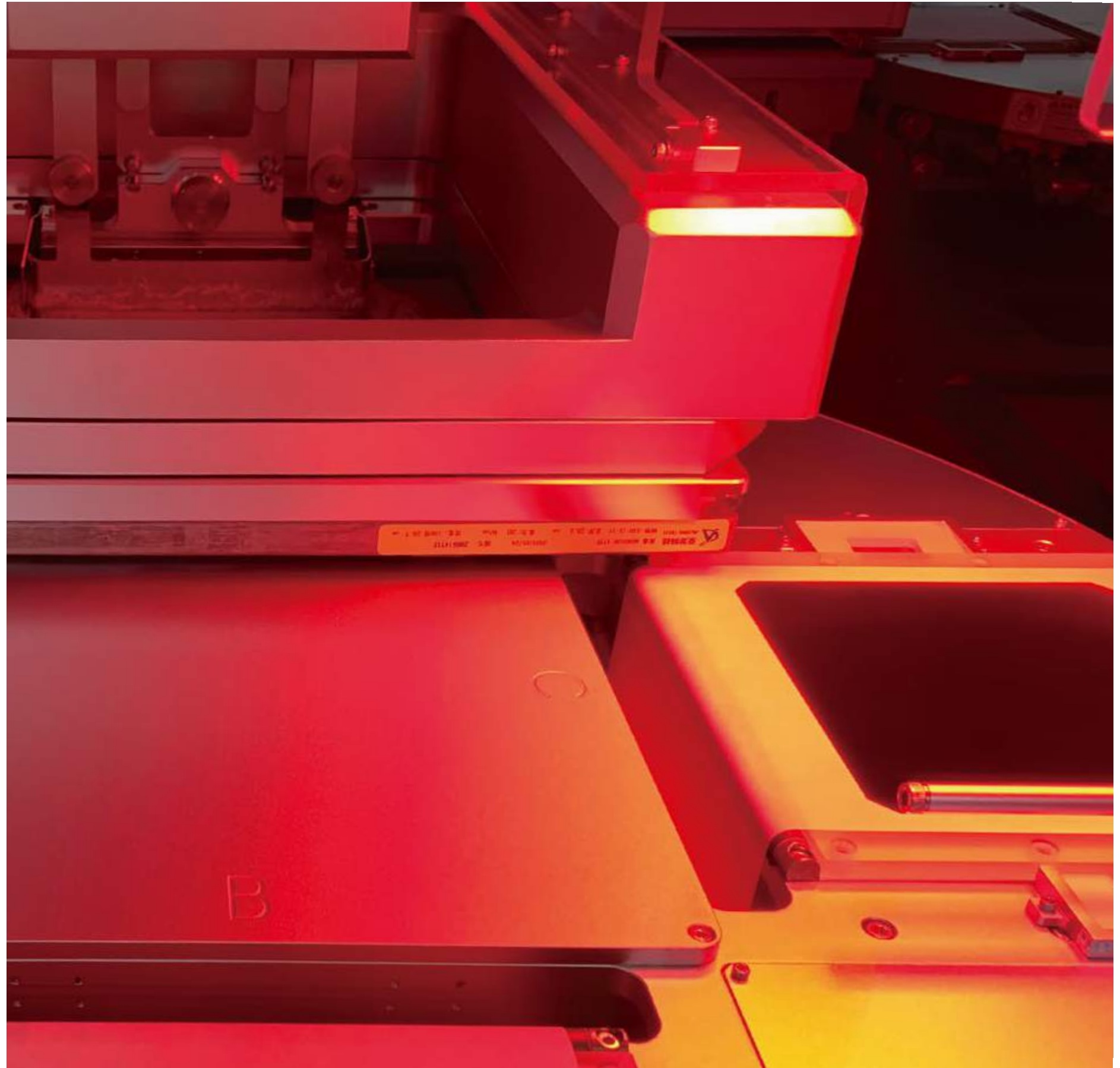
ISO 9001: Quality Management System

ISO 14001: Environment Management System

OHSAS 18001: Occupational Health and Safety

IEC TS 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 collaborate with R&D, production and sales & marketing with real-time and cross-regional communication.

2 GW

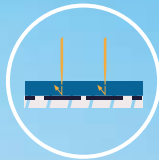
CELL CAPACITY

2.5 GW

MODULE CAPACITY

Jeniüs Pro high-efficiency monocrystalline series

JT365-380SHh JT440-455SGh



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%.



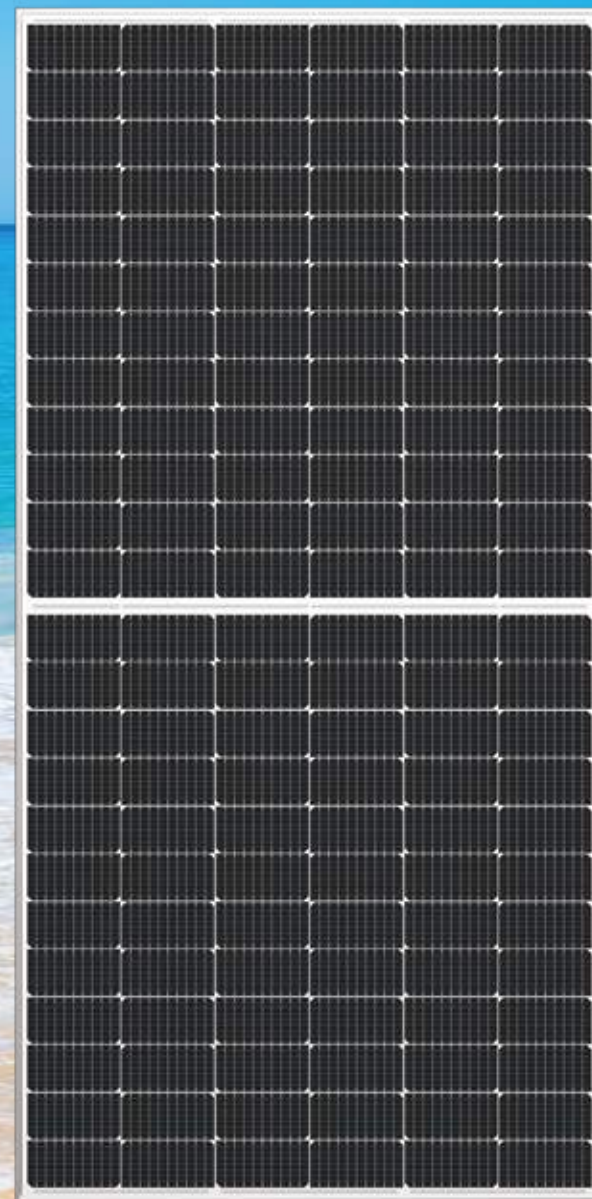
Split module design

Better performance in shading conditions with split module design



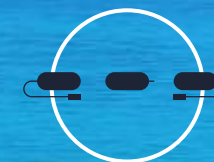
Half-cut cell technology

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.



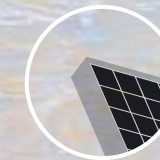
1500V DC

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 (%)	19.9%	20.2%	20.5%	20.7%
Dimensions / Weight	1763×1040×35 mm / 20.5kg			
Number of Cells	120 [2 x (10 x 6)]			

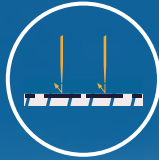
JT 440-455 SGh

Maximum Power Pmax (W)	440	445	440	445
Module Efficiency (%)	20.1%	20.4%	20.6%	20.8%
Dimensions / Weight	2102×1040×35 mm / 24.5kg			
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.

Jethrü Dü Pro high-efficiency monocrystalline bifacial series

JT365-380SIh(B) JT440-455SSh(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.



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%.



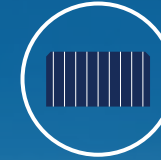
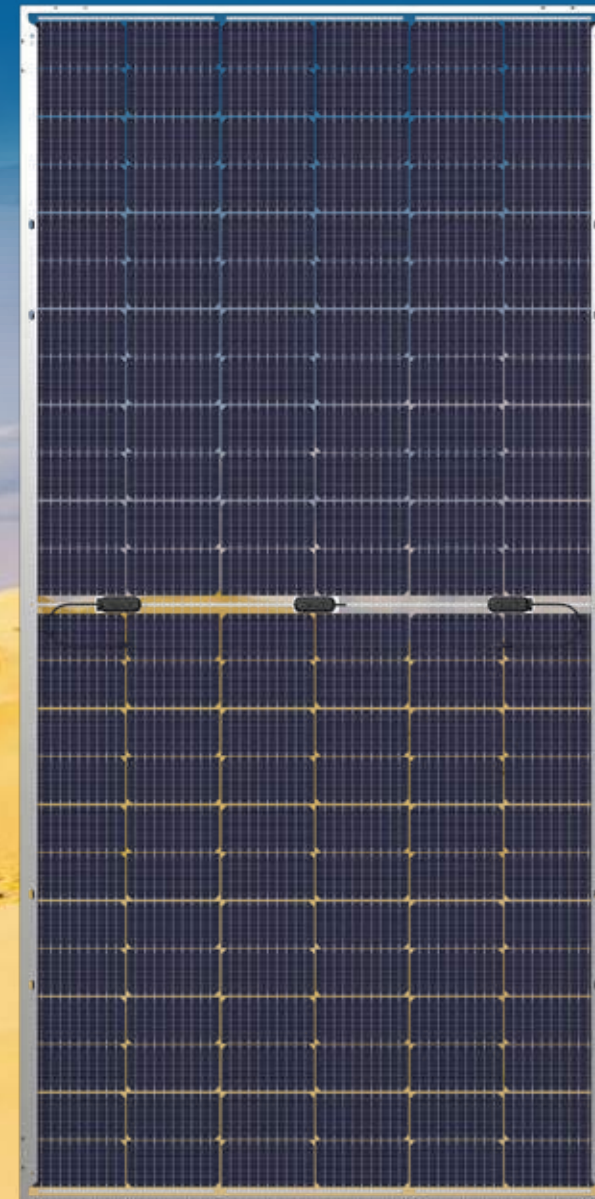
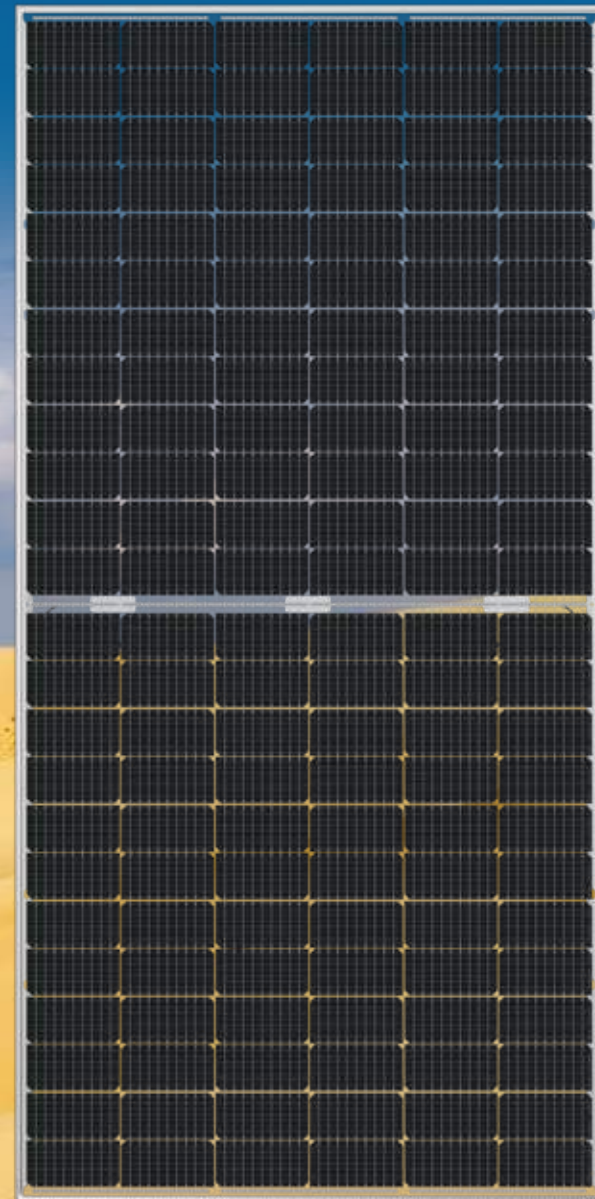
Split module design

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.



Bifacial cell technology

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



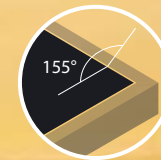
1500V DC

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



Ultra high strength frame

Specially designed for "Jethru Du Pro" 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 365-380 SIh(B)

Maximum Power Pmax (W)	365	370	375	380
Module Efficiency (%)	19.7%	20.0%	20.2%	20.5%
Dimensions / Weight	1773×1046×30 mm / 24.5kg			
Number of Cells	120 [2 x (10 x 6)]			

JT 440-455 SSh(B)

Maximum Power Pmax (W)	440	445	450	455
Module Efficiency (%)	19.9%	20.2%	20.4%	20.6%
Dimensions / Weight	2111×1046×30 mm / 28kg			
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 15 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
221 MWp


Solara4 (in construction)


Alcoutim, Portugal

Solara4 project is the largest subsidy-free PV project in Europe, which is currently under construction. Jetion Solar supplied more than 660,000 pieces of JT PAg polycrystalline PV modules. It is estimated that Solara4 is enough to empower 150,000 households after connect to the grid in Q2, 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 Nov, 2020. The project will generate over 218,000 MWh annually, which is enough to power over 26,900 homes annually.



3
72.2 MWp


Shotwick

Cheshire, UK

Shotwick solar farm - the largest PV project in the United Kingdom, which is located on the Wirral Peninsula in the unitary authority of Cheshire West, England. It has been connected to the grid in October, 2016. The project comprises more than 280,000 pieces of JT PLe polycrystalline PV modules, and enough to power more than 15,000 households for the community.



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.


Thuan Minh 2

Binh Thuan, Vietnam

Thuan Minh 2 solar farm is the first phase of the total 220 MW project in Binh Thuan province, Vietnam. Jetion Solar is the EPC contractor and also module supplier of the project. 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.



5
50 MWp

ACHIEVEMENT SPEAKS FOR ITSELF

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

FORTUNE 500

Ranked #187 in 2020

CNBM - Jetion Solar's parent company has been listed in FORTUNE Global 500 for 10 consecutive years, with rank from #485 in 2011 to #187 in 2020.

23 %+

Cell efficiency

Jetion Solar R&D team applies self-developed core patented cell technologies, such like passivation contact, multiple light utilization and metallization printing technology, etc., and successfully realized mass production of cell efficiency with more than 23%.

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 3Q 2020 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 2019)

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 2020, 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.

