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**Bluesun Vietnam Manufacturing**
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Bac Ninh Province Viet Nam

**Bluesun Cambodia Manufacturing**
Add:Svay Teab Village, Angk Popel, Cambodia

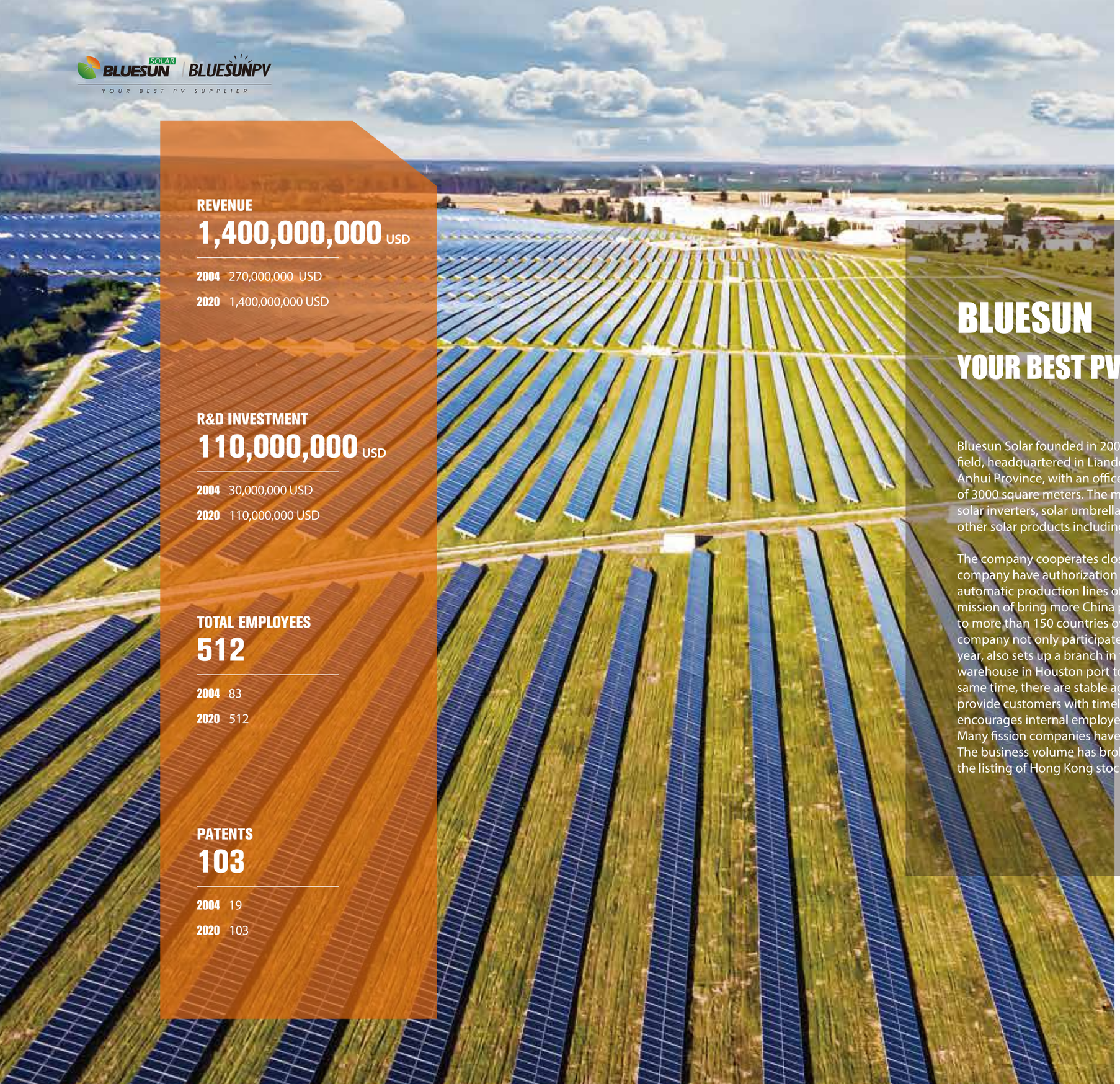

BLUESUN SOLAR | BLUESUNPV
YOUR BEST PV SUPPLIER

# BLUESUN SOLAR

*COMPANY PROFILE*


# MARKETING TEAM

Customer First  Embracing Changes  Teamwork  Honesty  Positive Energy



**REVENUE**

**1,400,000,000** USD

**2004** 270,000,000 USD

**2020** 1,400,000,000 USD

**R&D INVESTMENT**

**110,000,000** USD

**2004** 30,000,000 USD

**2020** 110,000,000 USD

**TOTAL EMPLOYEES**

**512**

**2004** 83

**2020** 512

**PATENTS**

**103**

**2004** 19

**2020** 103

# BLUESUN

## YOUR BEST PV SUPPLIER

Bluesun Solar founded in 2004, is a technology trade Internet company specializing in solar field, headquartered in Liandong U Gu Shushan International Enterprise Port, Hefei City, Anhui Province, with an office area of 3000 square meters and a peripheral warehouse area of 3000 square meters. The main products include solar panels, solar charging controllers, solar inverters, solar umbrellas / tiles, energy storage batteries, mounting systems, and other solar products including a complete set of solar power solutions.

The company cooperates closely with the tier 1 brands in the industry. At present, the company have authorization of Longi Solar and JA Solar Energy, also contracts several automatic production lines of Tongwei Solar Energy in our province. Adheres to the mission of bring more China products to the world, the company have been sold products to more than 150 countries overseas. With the explosive growth of overseas markets, the company not only participates in overseas solar exhibitions more than 15 times a year, also sets up a branch in the United States at the end of 2018 and sets up an overseas warehouse in Houston port to provide customers with more timely delivery services; at the same time, there are stable agents in Vietnam, Thailand, Yemen, Ukraine, Poland and Brazil to provide customers with timely pre-sale, in-sale and after-sale protection. The company encourages internal employees to incubate businesses and provide angel fund support. Many fission companies have diversified products and realized multi-point outbursts. The business volume has broken through the 1.4 billion USD in 2020, and strive to achieve the listing of Hong Kong stocks in the next three years!

# MILESTONES

## 1983
Bluesun Group was established, the main business are home appliances

## 2004
Bluesun solar was founded, built the first solar cell and solar panel factory in Hangzhou city, capactiy of solar cell 100MW, solar panel 60MW

## 2008
Built 2 more solar panel factories in Jiangyin and Hefei, total capacity 1.2GW, got TUV certificate

## 2013
Alibaba Top 1 solar supplier, 5.46 million USD on-line trade credit, get UL certificate

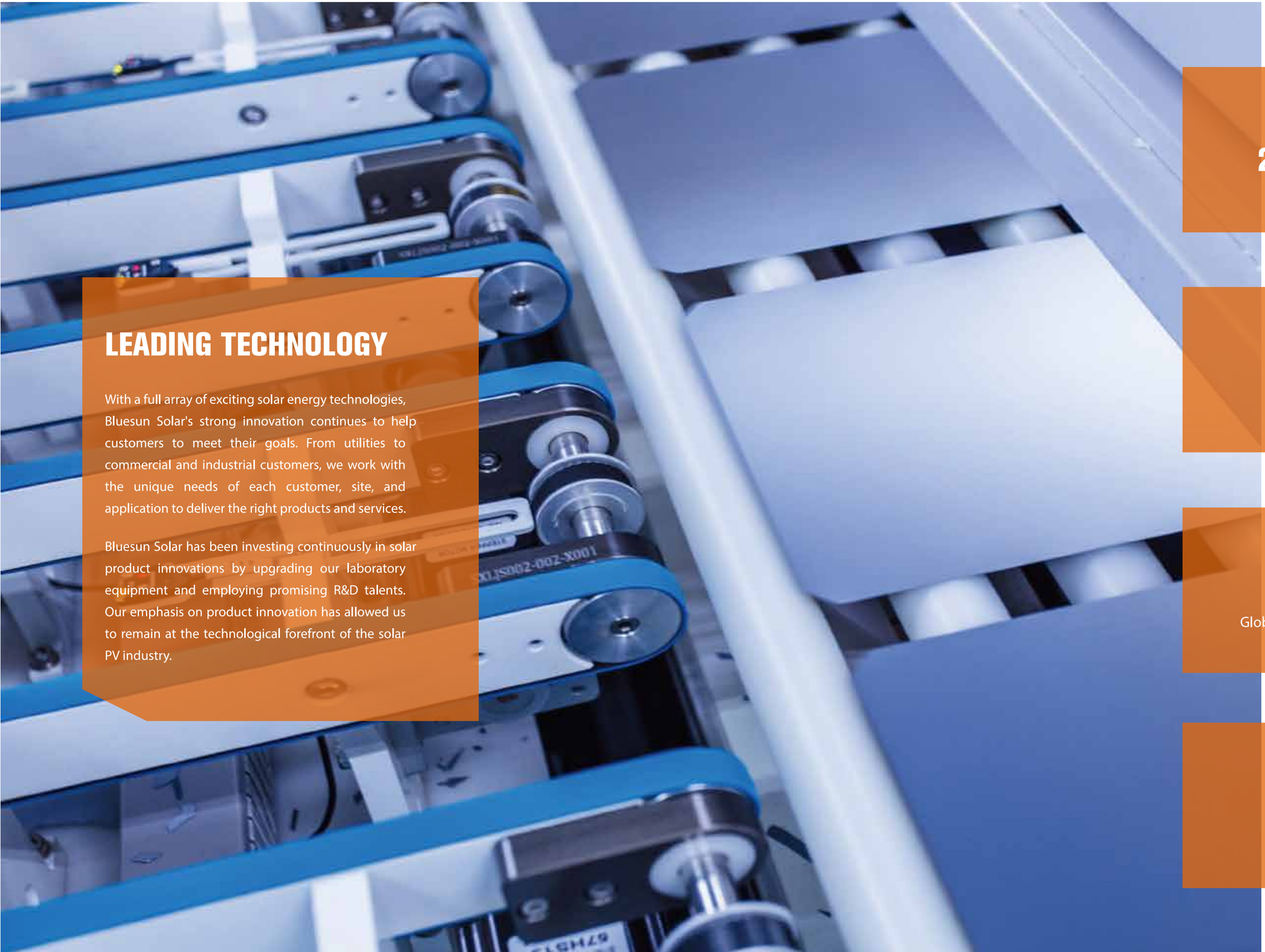
## 2015
Built up EPC team, started to do turnkey projects all around the world

## 2017
Financiable brand plan, listed in 28 banks, make sure more clients can get loan from the bank easier

## 2018
Set up Japan branch company, US branch company and warehouse in Huston

## 2019
Built solar panel factory in Thailand, Vietnam and Cambodia, hot selling over 150 countries.

## 2020
2020 Built first on grid inverter line, produce 6KW-125KW inverter. Total 6 solar panel factories capacity up to 21GW.



# LEADING TECHNOLOGY

With a full array of exciting solar energy technologies, Bluesun 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.

Bluesun 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.

**23.0%+**
Cell Efficiency

**100+**
Patents

**67**
Global R&D Engineers

**CNAS**

# QUALITY MANAGEMENT

Stringent quality control is the cornerstone of Bluesun 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.

Bluesun 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

01

**11GW**

CELL CAPACITY

02

**9.2GW**

MODULE CAPACITY

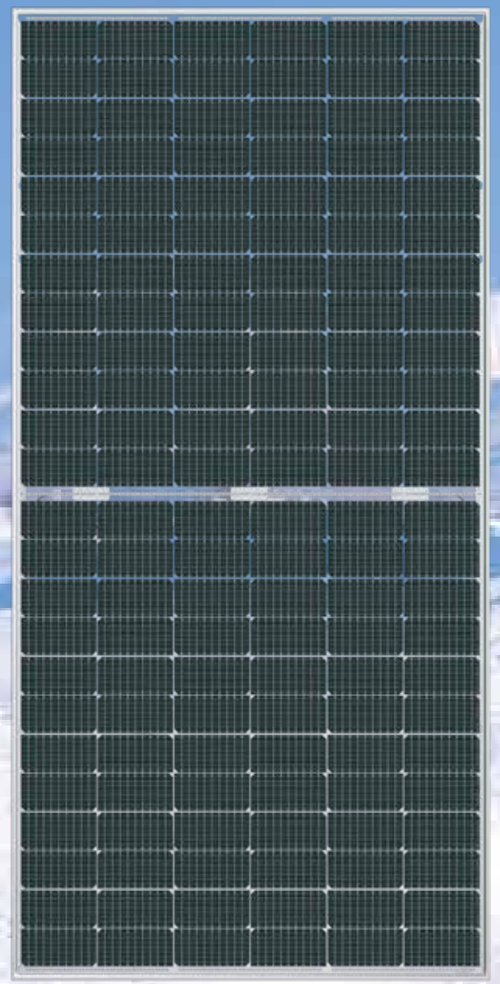
# MANUFACTURING EXCELLENCE

Bluesun Solar produces quality ensured cells and a wide range of PV modules suitable for all system types: residential, commercial, industrial, and utility. And all Bluesun 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.

# High-effciency monocrystalline bifacial series

BSM380M-60HBD BSM455M-72HBD



## 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 withenvironmental light reflections , brings additiona 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 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

BSM365-380M-60HBD

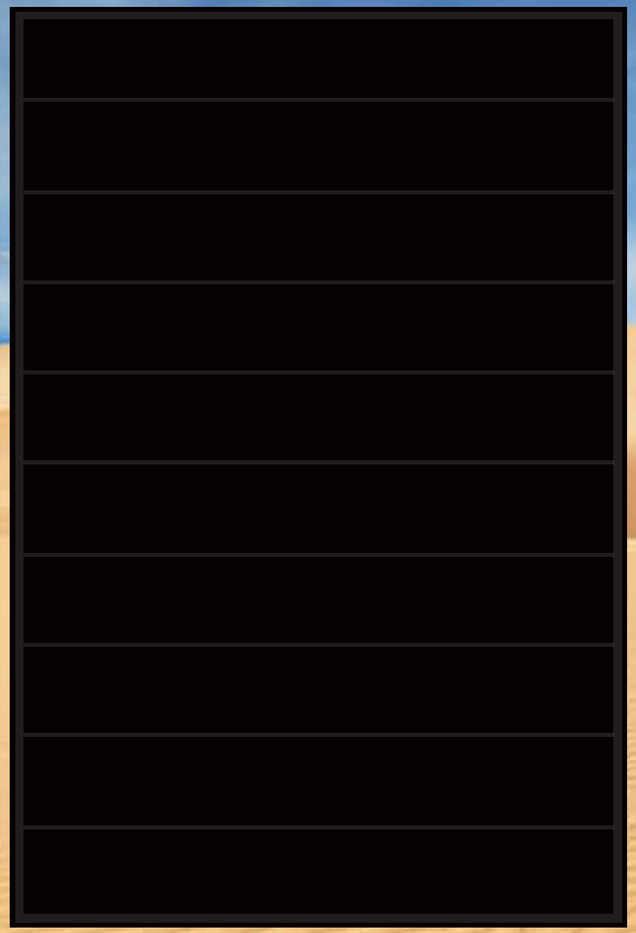
| | | | | |
|---|---|---|---|---|
| **Maximum Power Pmax (W)** | 365 | 370 | 375 | 380 |
| **Module Efficiency (%)** | 19.7% | 20.0% | 20.2% | 20.5% |
| **Dimensions / Weight** | 1755×1038×30 mm / 23.3kg | | | |
| **Number of Cells** | 120 [2 x (10 x 6) ] | | | |

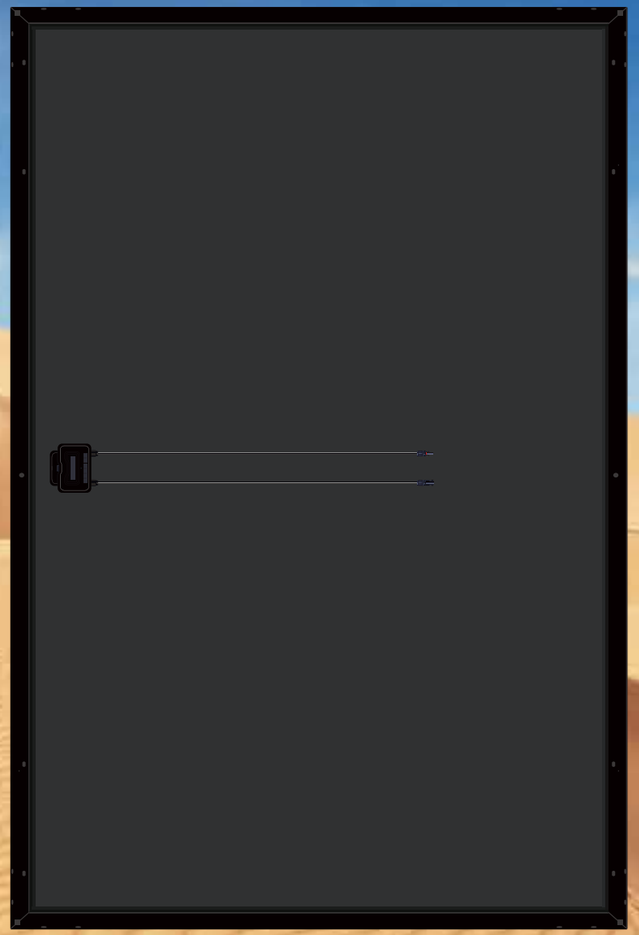
BSM400-455M-72HBD

| | | | | |
|---|---|---|---|---|
| **Maximum Power Pmax (W)** | 440 | 445 | 450 | 455 |
| **Module Efficiency (%)** | 19.9% | 20.2% | 20.4% | 20.6% |
| **Dimensions / Weight** | 2094×1038×35 mm / 27.5kg | | | |
| **Number of Cells** | 144 [2 x (12 x 6) ] | | | |

# The world's 1st full black module

BSM410PM5-60SB





## 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 simultane-ously increasing rear surface reflection by use of a dielectrically displaced rear metal reflector

## Anti-UV

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

## Shingled module design

Shingled cells use flexible adhesives instead of metal alloys to achieve interconnections between the cells, which has better flexibility

## 1500V DC

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

## Shingled cell technology

The cell is cut inito 5 pieces, the current of single string is reduced (9A→ 1.8A), and the current loss is greatly reduced

## Ultra high strength frame

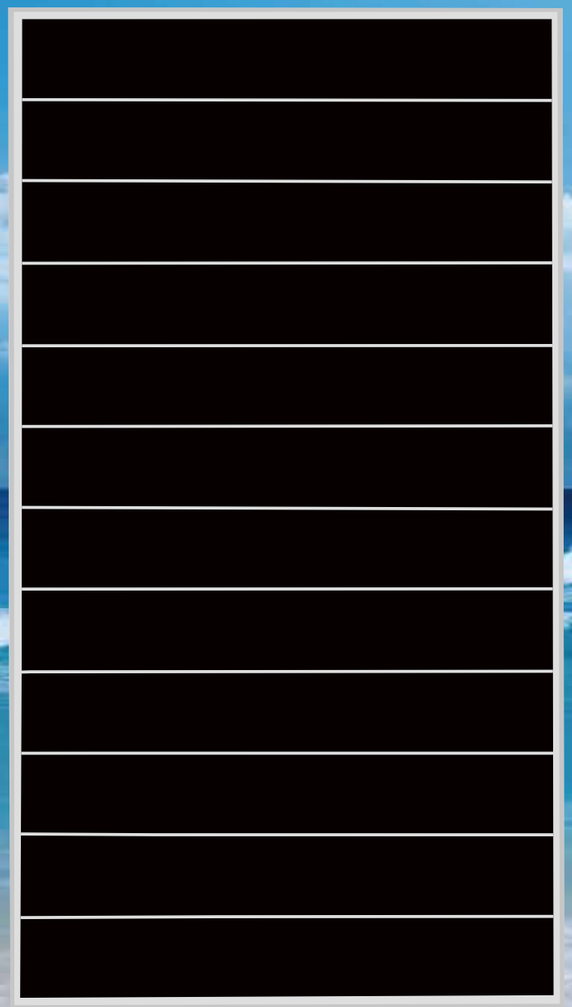
Specially designed to withstand 2400Pa – 5400Pa mechanical load.

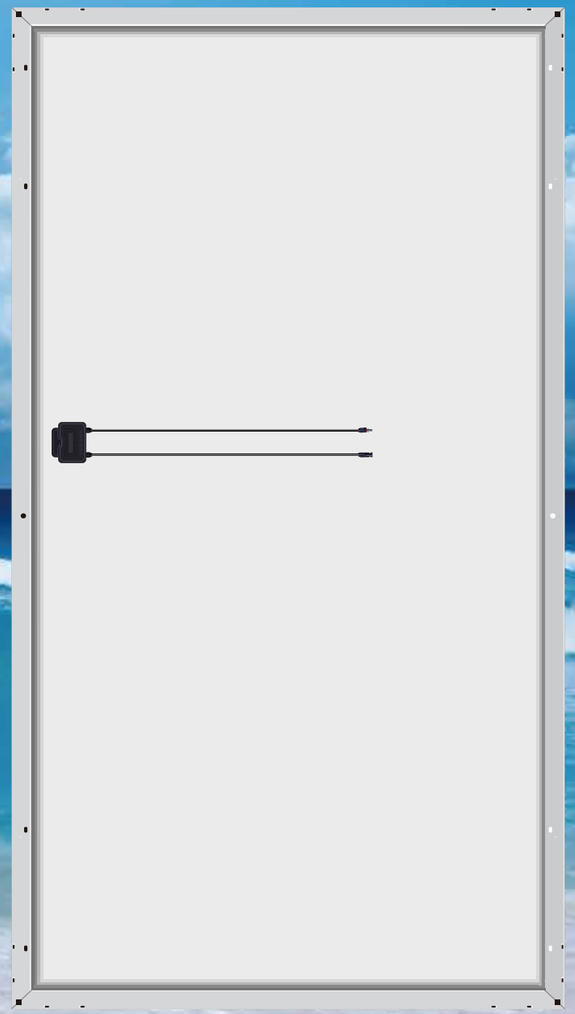
BSM410PM5-60SB

| | |
|---|---|
| **Maximum Power Pmax (W)** | 395 400 405 410 |
| **Module Efficiency (%)** | 20.2% 20.4% 20.7% 20.9% |
| **Dimensions / Weight** | 1719×1140×35 mm / 22kg |
| **Number of Cells** | 166 (10 x 34) |

# Super HJT monocrystalline shingled series

BSM570PM5-72SB





### HJT technology

High efficiency and double-sided ratio. This technology demonstrates the ability to achieve 23%-26% solar cell efficiency, compared to 21% -23% shown by PERC technology.

### Shingled module design

Shingled cells use flexible adhesives instead of metal alloys to achieve interconnections between the cells, which has better flexibility

### Shingled cell technology

The cell is cut inito 5 pieces, the current of single string is reduced (9A→ 1.8A), and the current loss is greatly reduced

### 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.

### Ultra high strength frame

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

BSM570PM5-72SB

| | | | |
|---|---|---|---|
| **Maximum Power Pmax (W)** | 550 | 560 | 570 |
| **Module Efficiency (%)** | 23.4% | 23.8% | 24.3% |
| **Dimensions / Weight** | 2056*1140*35 mm / 25kg | | |
| **Number of Cells** | 166 (12 x 34) | | |

# 01.

**Solara4 (in construction)**

**Alcoutim, Portugal**

Solara 4 project is the largest subsidy-free PV project in Europe, which is currently under construction.
Bluesun Solar supplied more than 660,000 pieces of BSM330P-60OPH polycrystalline PV modules and 2,178 pieces of 100KW BLUESUNPV inverter . It is estimated that Solara4 is enough to empower 150,000 households after connect to the grid in Q2, 2021.


## 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

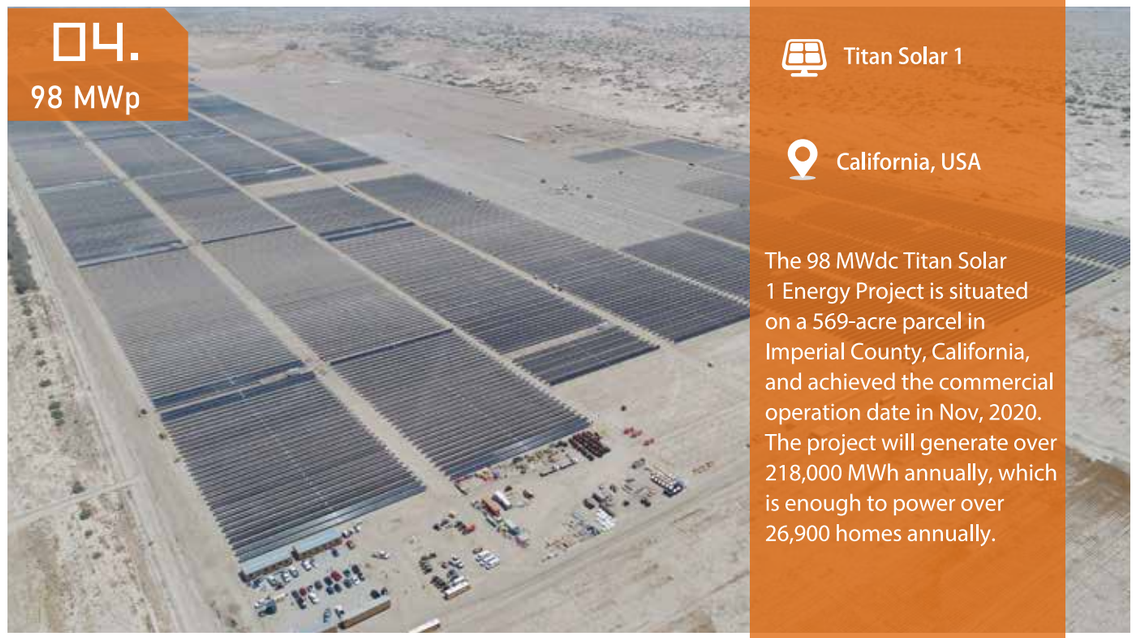
02.
46 MWp

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 BSM330P-60OPH polycrystalline PV panels. Ourika achieved the commercial operation date in June, 2018.

04.
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.

03.
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 BSM325P-60OPH polycrystalline PV modules, and enough to power more than 15,000 households for the community

05.
50 MWp

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. Bluesun Solar is the EPC contractor and also module supplier of the project.
The project has been successfully connected to the grid in June, 2019.

06.
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.

# 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.

## FINANCIABLE
### Bank list

Since 2017， BLUESUN brand listed in 28 banks in different countries, make sure more clients can get loan from the bank easier

## TOP 15
### Global module capacity

Bluesun Solar has 11 GW of cell and 9.2 GW of module capacity with factories in China, Vietnam and Thailand.

## 23 %+
### Cell efficiency

Bluesun 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 ass production of cell efficiency with more than 23%.

## 103
### Patents

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

## 13 GW+
### Cumulative module shipment

Since 2013, Bluesun Solar has shipped more than 13GW of photovoltaic modules globally.

## 166
### Countries and regions

As year of 2020, Bluesun Solar's products have been widely applied in over 166 countries and regions in Europe , Asia Pacific , America and Africa

# GLOBAL PRESENCE


**21GW**
CAPACITY

**13GW**
INSTALLED

**15YRS**
MANUFACTUERING

**166**
COUNTRIES

**24HRS**
SERVICE

# SUSTAINABLE DEVELOPMENT

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