

BOAMAX



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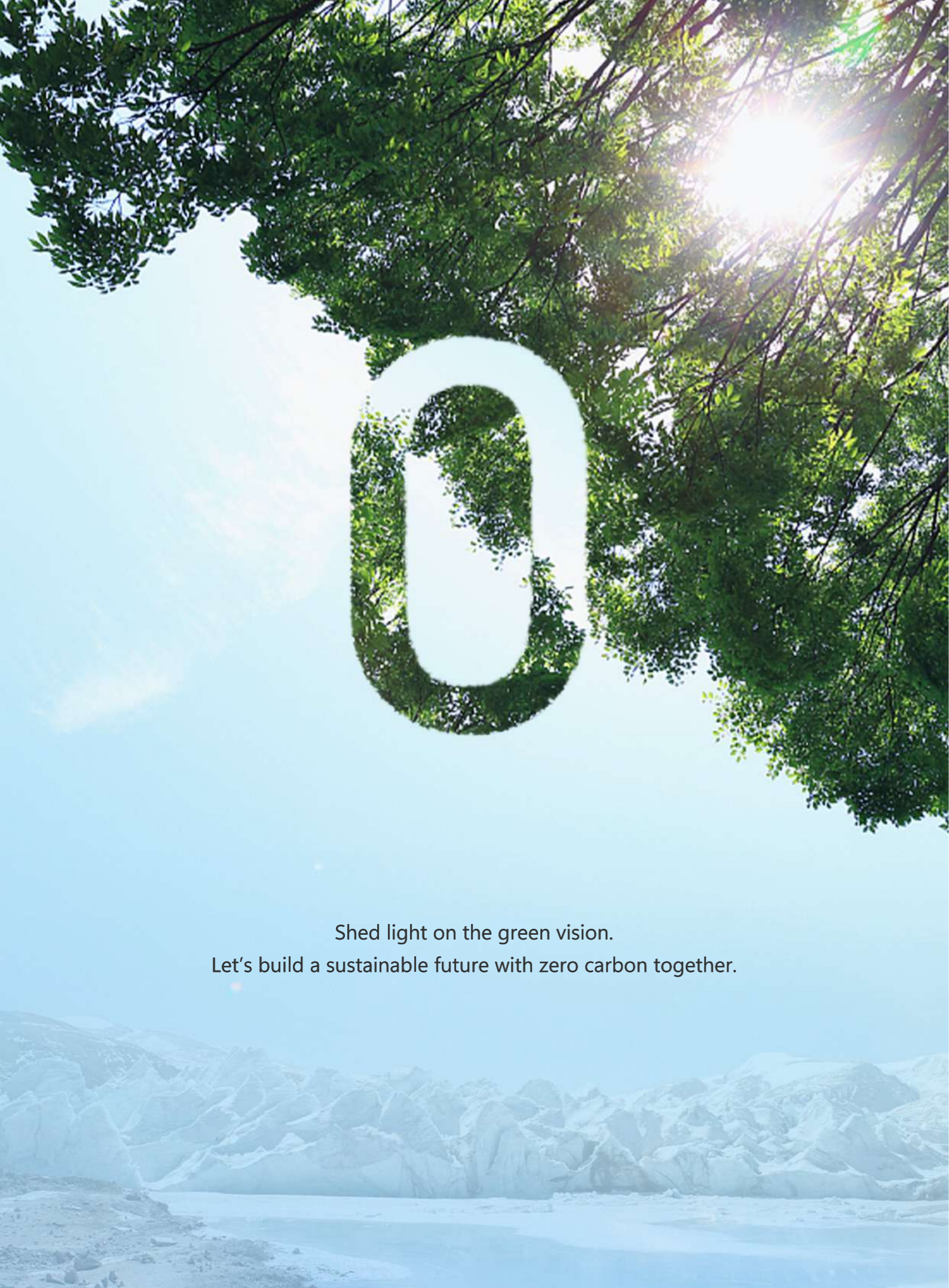
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**HI-TECH INTEGRATOR
SMART LIFE CREATOR**

BOAMAX

BOAMAX



Shed light on the green vision.
Let's build a sustainable future with zero carbon together.

BRAND

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ABOUT US

Jiangsu Boamax Technologies Group Co., Ltd. was established in 2001. In recent years, the company has kept up with the development requirements of the era and formulated a strategic positioning of "A Comprehensive Service Provider in the New Energy Industry" as its core, focusing on "PV generation, power storage, charging and battery swapping" in the new energy sector. As a result, it has evolved into a diversified and comprehensive industrial group driven by both "new energy investment & operation and intelligent manufacturing". The company plays a crucial role in supporting the development of a clean, low-carbon, safe, and efficient new energy system, making substantial contributions to the global advancement of the new energy industry.



Technological R&D Advantages

The company has established a joint venture with the academician and professor team from Xidian University. This collaboration aims to conduct research on industrialization technology and develop commercialization solutions for "high-efficiency HJT crystalline silicon cells," "perovskite cells", "HJT-perovskite laminated cells", and other products.

Industrial And Resource Advantages

With over 20 years of experience and expertise in high-end manufacturing and production, the company has established multiple production and manufacturing bases in Jiangsu, Anhui, Inner Mongolia, Fujian, and other regions. These bases collectively possess a total reserve of more than 5GW of green power resources.

Market Advantages

The company is rooted in the domestic market and actively seeks to expand its overseas resources, pursuing a path of global development. It conducts in-depth discussions and collaboration with prominent state-owned enterprises such as China Huaneng Group, SPIC, CEEC, and China Resources Group.

Our Partners



DUAL DRIVE STRATEGY

A comprehensive service provider in the new energy industry

Zero-carbon plant

Zero-carbon city

Zero-carbon travel

Zero-carbon village

Zero-carbon park

Zero-carbon households

Investment and operation in new energy sector

Intelligent manufacturing

Four business sectors



Comprehensive energy development



Smart energy construction



PV products manufacturing



Manufacturing of products for power charging and battery swapping

Ground power station, industrial and commercial distributed power station, household distributed power station

Integrated "PV-Storage-Charging-Swapping" solution; charging and swapping products; building city-wide smart green transportation network; virtual power plant operation

High-efficiency heterojunction PV cells
PV modules, perovskite heterojunction laminated modules

Overcharging system, fast charging system; intelligent charging; integrated AC charging pile, V2G two-way DC charging pile; heavy truck battery swapping bin

Basic technology



PV generation



Energy storage



Charging pile



Battery swapping station



Battery recycling



Spot transaction



Smart energy microgrid

MAIN BUSINESS

Relying on 22 years of technological accumulation and resource advantages, Boamax joins hands with high-quality resources in the industry. While maintaining a focus on intelligent development in the traditional manufacturing industry, the company actively expands into the new energy sector by integrating businesses related to "solar power, power storage, power charging/exchange" within the industry chain. This strategy creates a dual driving force of "new energy + intelligent manufacturing," aligned with the national objectives of achieving carbon neutrality and peak carbon emissions. By adhering to these policies, the company aims to enhance its core competitiveness and achieve sustainable and steady growth characterized by high quality.

01 PV PRODUCTS MANUFACTURING

The company places a strong emphasis on the development of high-efficiency hetero-junction cells (HJT) and has established production bases in various locations, including Huaiyuan, Anhui province.



02 COMPREHENSIVE ENERGY DEVELOPMENT AND O&M

The company has reserved over 5GW of green power resources in Anhui, Inner Mongolia and other places

03 CONSTRUCTION OF CITY-WIDE POWER CHARGING AND BATTERY SWAPPING FACILITIES

The company has a self-owned brand of charging piles and battery swapping products, and has also established technical cooperation with Huawei. Following a city-wide deployment model, the company is expanding its presence in cities such as Huaibei, Chizhou, Chongqing, Bengbu, Zhengzhou, and Quanzhou.



04 INTELLIGENT MANUFACTURING

The company has established intelligent manufacturing production bases in Suzhou, Bengbu (Bengshan), Xiamen, the Philippines, and other locations, primarily focusing on the R&D, production, and manufacturing of PV-related components, new energy charging/swapping services, and other high-end equipment for new energy applications.

DEVELOPMENT HISTORY



2001

Boamax was established

2010

Listed on the SME board

2007

Reformed into a joint-stock company

2018

Three business segments, i.e. sheet metal processing, equipment and investment & operation, were established

2021

With the change of the actual controller and the joining of a new management team, Boamax has clarified its strategic positioning as " A Comprehensive Service Provider in the New Energy Industry" and has established a development policy of dual-drive growth focusing on intelligent manufacturing and new energy

2022

Established the multi-layout of "PV-Storage-Charging-Swapping"
Invested in the construction of a 10GW photovoltaic heterojunction intelligent manufacturing base
More than 10 "PV-Storage-Charging-Swapping" green transportation cities were included in our investment layout

2023

Expand the reach of "Xin Roof", our stand-alone household PV product, across the entire county.
Continue the splendid chapter, embark on a new journey together

CORPORATE CULTURE

OUR VISION

To become a respected global enterprise that continuously creates value for humanity

OUR MISSION

Becoming a hi-tech integrator and a smart life creator

CORE VALUES

Making steady progress, embracing diversity, respecting nature, caring for people, and contributing to society

TALENT CONCEPT

Putting the strugglers at the core

QUALITY POLICY

Continuously pursuing excellence

EHS MANAGEMENT POLICY

People-oriented, law-abiding, environment-friendly, saving energy and emission reduction

PV PRODUCTS MANUFACTURING



As a leader in the perovskite/heterojunction laminated cell field, our company has two major advantages. Firstly, we have a strong foundation in the heterojunction cell industry. Secondly, we possess extensive expertise in research and development of laminated cell technology. Our strategic goal is to establish a production capacity of over 10GW for heterojunction cells and modules. Additionally, we have partnered with a professor team from Xidian University to advance the research and industrialization of perovskite/heterojunction laminated cell technology, placing us at the forefront of technological advancements in the industry.



SCALE

10GW
capacity
planning



PROFESSION

Design and production
capability of dual-glass,
half-piece modules and
other high-efficiency
modules



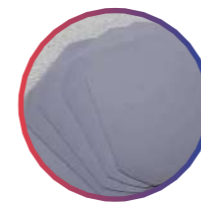
FEATURE

We can provide PV
modules in various
specifications ac-
cording to custom-
er needs

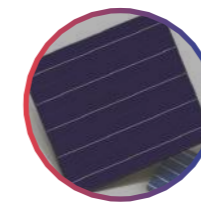


SERVICE

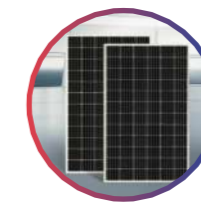
We have a professional
customer service team
that provides
comprehensive sales
and after-sales services



Slicing



HJT cells



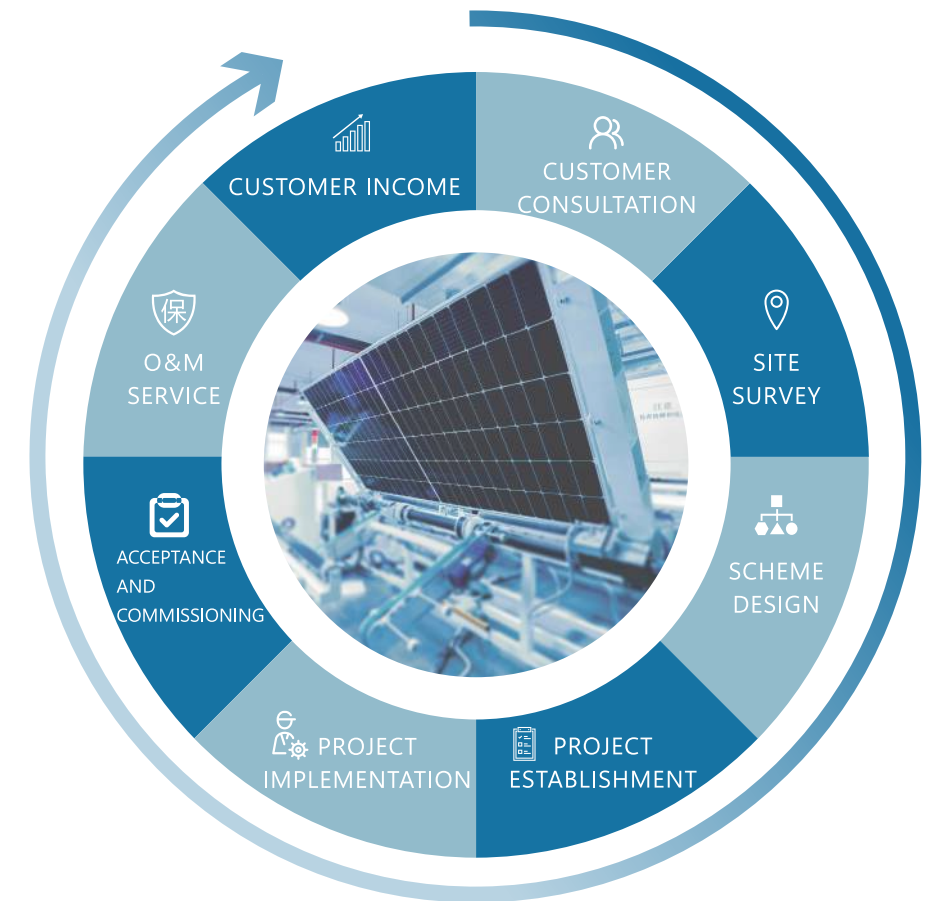
HJT modules
(covering TOPCon+PERC)



HJT+perovskite
laminated modules



COMPREHENSIVE ENERGY



By integrating research, design, investment, construction, operation and maintenance, we are committed to becoming the world's leading provider of one-stop clean energy system solutions. Taking new energy technology research as the guide, design optimization as the foundation, EPC management as the core, and operation and maintenance services as the support, we promote the coordinated development of ground-based power plants, commercial and industrial distributed rooftop power stations, and household rooftop distributed power stations. Currently, the company has engaged in in-depth discussions and collaborations with major state-owned enterprises such as China Huaneng Group, SPIC, CEEC, Three Gorges Group, and China Resources Group.

We provide our customers with turnkey services for the development, design, procurement, and construction of PV power projects. We undertake the entire process from resource assessment, preliminary planning, scheme selection, feasibility study, engineering design, project management, installation, commissioning, grid connection, and operation and maintenance, offering a comprehensive solution package.

SMART ENERGY

With our expertise in distributed PV generation, distributed energy storage, charging piles, and battery swapping station technologies, we focus on investment and operation in the areas of grid-side peak shaving, user-side energy storage, integrated green transportation solutions (PV-charging-storage-swapping), as well as virtual power plants. The cumulative installed capacity of our energy storage product sales and the projects invested has reached 2160MW.



Integrated "PV-Storage-Charging-Swapping" solution



Charging and battery swapping products



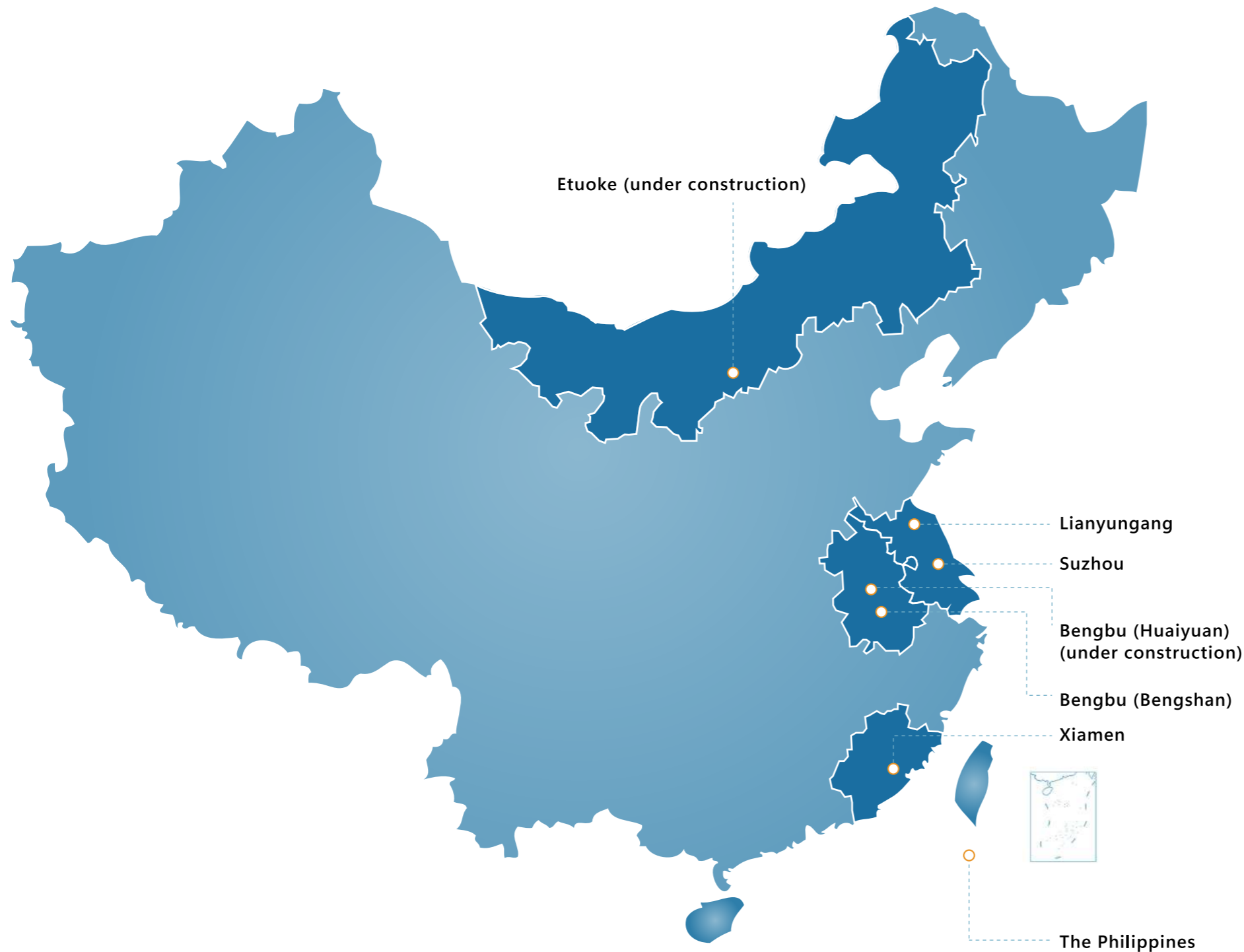
Smart green transportation network



Virtual power plant operation



INTELLIGENT MANUFACTURING



The company's intelligent equipment manufacturing business falls within the realm of the automation equipment assembly manufacturing industry. According to the national "14th Five-Year Plan" for intelligent manufacturing development, the emphasis is placed on the core aspects of manufacturing, with processes and equipment at the forefront, while data serves as the foundation. Leveraging platforms such as the supply chain and industrial clusters, the objective is to establish a dynamic, optimized, secure, and efficient intelligent manufacturing system.

In line with national development plans, we are actively strengthening the foundation of intelligent equipment manufacturing, enhancing capabilities in intelligence, automation, and informatization. We provide customers with comprehensive intelligent equipment solutions, offering end-to-end services such as development, design, production, installation, commissioning, production and delivery.

We primarily focus on the research, development, production, and manufacturing of PV modules and accessories, charging/battery swapping products for the new energy industry, energy storage equipment, and other high-end equipment for new energy applications.



PRODUCT SERIES

HiSun

HETEROJUNCTION MODULES HIGH EFFICIENCY HIGH PERFORMANCE HIGH RELIABILITY

At the break of dawn
when everything meets the first rays of sunlight
between sunrise and sunset, an eternal melody has been woven
Each beam of light, every hint of warmth
is a greeting from deep within the universe
Boamax's "HiSun heterojunction series modules"
together with time, illuminate every moment
walking alongside you towards a brighter life

PRODUCTS

HiSun

High-efficiency HJT Solar Module



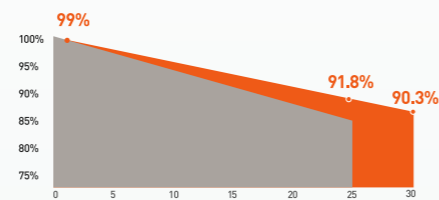
BM 210H-120DG HP Series **HJT**

- 665 W** Maximum Power Output
- 23.5 %** Maximum Module Efficiency
- 0~+5 W** Power Tolerance

Reliability and Stability Guarantee

- MBB welding strip gives better optical and electrical performance
- Better BOS and LCOE
- Up to 85% bifaciality
- Premium encapsulating material and rigorous workmanship solution guarantee PID-resistant modules
- Advanced nondestructive slicing technology causes minimal damage and microcracks to cells

Industry-leading linear warranty



15 year material and workmanship warranty **30** year linear warranty

1% attenuation in the first year and no greater than 0.30% years thereafter



BM-HM Series BM210H-120DG

Bifacial Dual Glass Monocrystalline Module

625-665W

Electrical Parameters (STC)

	Pmax(W)	625	630	635	640	645	650	655	660	665
Power output	Pmax(W)	625	630	635	640	645	650	655	660	665
Open-circuit voltage	Voc(V)	45.13	45.3	45.48	45.66	45.81	45.97	46.14	46.31	46.48
Voltage at maximum power point	Vmp(V)	37.86	38.03	38.19	38.35	38.47	38.67	38.83	38.99	39.15
Short-circuit current	Isc(A)	17.31	17.37	17.43	17.49	17.55	17.61	17.67	17.73	17.79
Current at maximum power point	Imp(A)	16.51	16.57	16.63	16.69	16.76	16.81	16.87	16.93	16.99
Module efficiency	(%)	22.08	22.26	22.44	22.61	22.79	22.97	23.14	23.32	23.50
Power tolerance	(W)	0~+5								

* STC: AM 1.5, 1,000W/m2 irradiance, and 25°C cell temperature

* NOCT: 800W/m2 irradiance, 20°C ambient temperature, and wind speed of 1m/s

Structural Performance

Cell type	210 mm N-type heterojunction monocrystalline cell
Cell array	120 (6 × 20)
Module Dimensions	2172 mm × 1303 mm × 35 mm
Cross-sectional area of the cable	4 mm ² (IEC). 12 AWG (UL)
Weight	35.3 kg
Glass	[F] 2.0 mm anti-reflection tempered glass [B] 2.0 mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68 rating
Cable	4 mm ² 1400 mm net length. length customizable /UV Protection
Number of diodes	3
Wind load/Snow load	2400 Pa/5400 Pa
Connector	MC4-compatible
Bifaciality	85±5%

Temperature Characteristics

Nominal operating cell temperature	45±2°C
Temperature coefficient (Isc)	+0.05%/C
Temperature coefficient (Voc)	-0.28%/C
Temperature coefficient (Pmax)	-0.34%/C

Limit Parameters

Operating temperature	-40~+85°C
Maximum system voltage	1500V DC
Maximum fuse rating	30 A

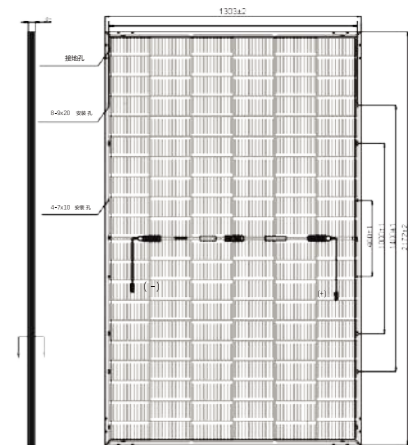
Packing

Pcs per box	31 pieces
Pcs per 17.5m flatbed trailer	806 pieces

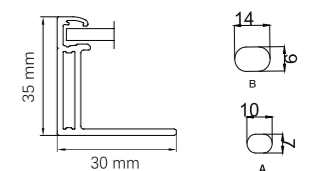
Optional

Connector	<input type="checkbox"/> Original MC
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Module Dimensions

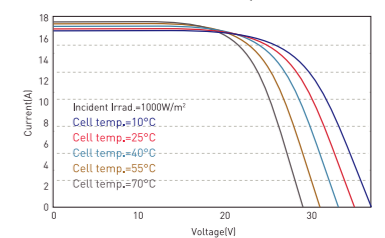


Rear view

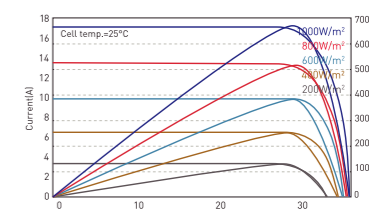


Curve Chart

I-V Curve at Different Temperature (665W)



I-V/P-V Curve at Different Irradiation (665W)



HiSun

High-efficiency HJT Solar Module



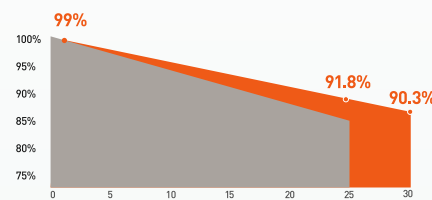
BM 210H-132DG HP Series **HJT**

- 730 W** Maximum Power Output
- 23.5 %** Maximum Module Efficiency
- 0~+5 W** Power Tolerance

Reliability and Stability Guarantee

- MBB welding strip gives better optical and electrical performance
- Better BOS and LCOE
- Up to 85% bifaciality
- Premium encapsulating material and rigorous workmanship solution guarantee PID-resistant modules
- Advanced nondestructive slicing technology causes minimal damage and microcracks to cells

Industry-leading linear warranty



15 year material and workmanship warranty **30** year linear warranty

1% attenuation in the first year and no greater than 0.30% years thereafter



BM-HP Series BM210H-132DG

Bifacial Dual Glass Monocrystalline Module

690-730 W

Electrical Parameters (STC)

Parameter	690	695	700	705	710	715	720	725	730
Power output P _{max} (W)	690	695	700	705	710	715	720	725	730
Open-circuit voltage Voc(V)	49.82	49.98	50.13	50.29	50.45	50.61	50.77	50.93	51.09
Voltage at maximum power point V _{mp} (V)	41.80	41.95	42.10	42.25	42.40	42.54	42.70	42.85	43.00
Short-circuit current Isc(A)	17.31	17.37	17.43	17.49	17.55	17.61	17.67	17.73	17.79
Current at maximum power point I _{mp} (A)	16.51	16.57	16.63	16.69	16.75	16.81	16.86	16.92	16.98
Module efficiency (%)	22.21	22.37	22.53	22.70	22.86	23.02	23.18	23.34	23.50
Power tolerance (W)									0~+5

* STC: AM 1.5, 1,000W/m² irradiance, and 25°C cell temperature

* NOCT: 800W/m² irradiance, 20°C ambient temperature, and wind speed of 1m/s

Structural Performance

Cell type	210 mm N-type heterojunction monocrystalline cell
Cell array	132 (6 × 22)
Module Dimensions	2384 mm × 1303 mm × 35 mm
Cross-sectional area of the cable	4 mm ² (IEC), 12 AWG (UL)
Weight	38.7 kg
Glass	(F) 2.0 mm anti-reflection tempered glass (B) 2.0 mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68 rating
Cable	4 mm ² , 1400 mm net length, length customizable /UV Protection
Number of diodes	3
Wind load/Snow load	2400 Pa/5400 Pa
Connector	MC4-compatible
Bifaciality	85±5%

Temperature Characteristics

Nominal operating cell temperature	45±2°C
Temperature coefficient (Isc)	+0.05%/C
Temperature coefficient (Voc)	-0.28%/C
Temperature coefficient (Pmax)	-0.34%/C

Limit Parameters

Operating temperature	-40~+85°C
Maximum system voltage	1500V DC
Maximum fuse rating	30 A

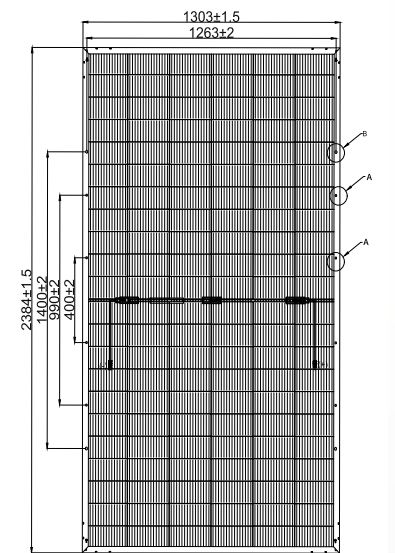
Packing

Pcs per box	31 pieces
Pcs per 17.5m flatbed trailer	744 pieces

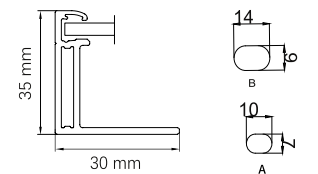
Optional

Connector	<input type="checkbox"/> Original MC
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Module Dimensions

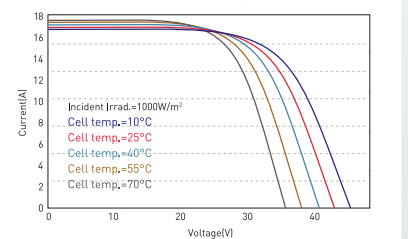


Rear view

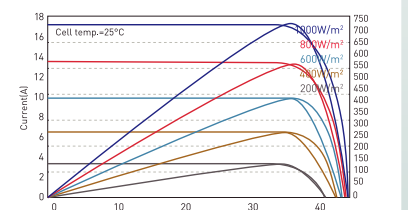


Curve Chart

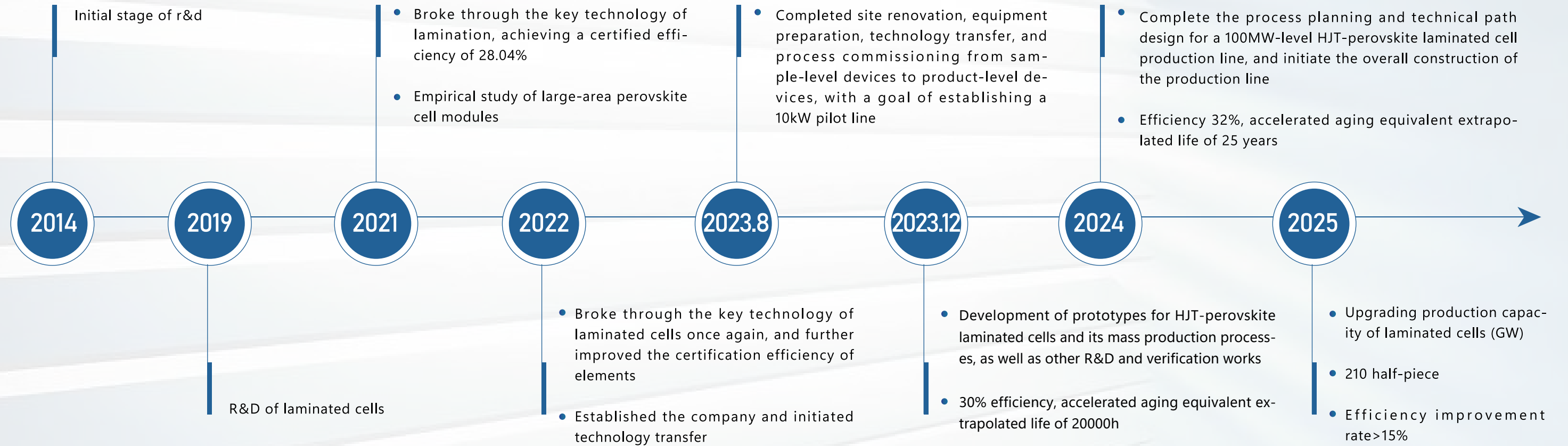
I-V Curve at Different Temperature (730W)



I-V/P-V Curve at Different Irradiation (730W)



R&D OF LAMINATED CELL TECHNOLOGY



PV-STORAGE-CHARGING-SWAPPING INTEGRATION

A new energy utilization model that integrates multiple technologies including PV generation, high-capacity energy storage batteries, and intelligent charging piles/battery swapping stations.

Peak shaving and valley filling to improve energy conversion efficiency

By leveraging energy storage during nighttime, supplying power to customers during peak periods to fulfill their electricity demands, and simultaneously utilizing PV generation for immediate use and storing excess power, this approach successfully achieves peak shaving and valley filling. Additionally, it enhances the consumption of new energy sources, thereby boosting energy conversion efficiency.

Integrating resources and improving land utilization

It maximizes the utilization of idle building space and saves costs on land resources. Furthermore, this approach can be combined with the "PV + transportation" model to transform petrol stations and rest areas along expressways, increasing the proportion of green electricity.

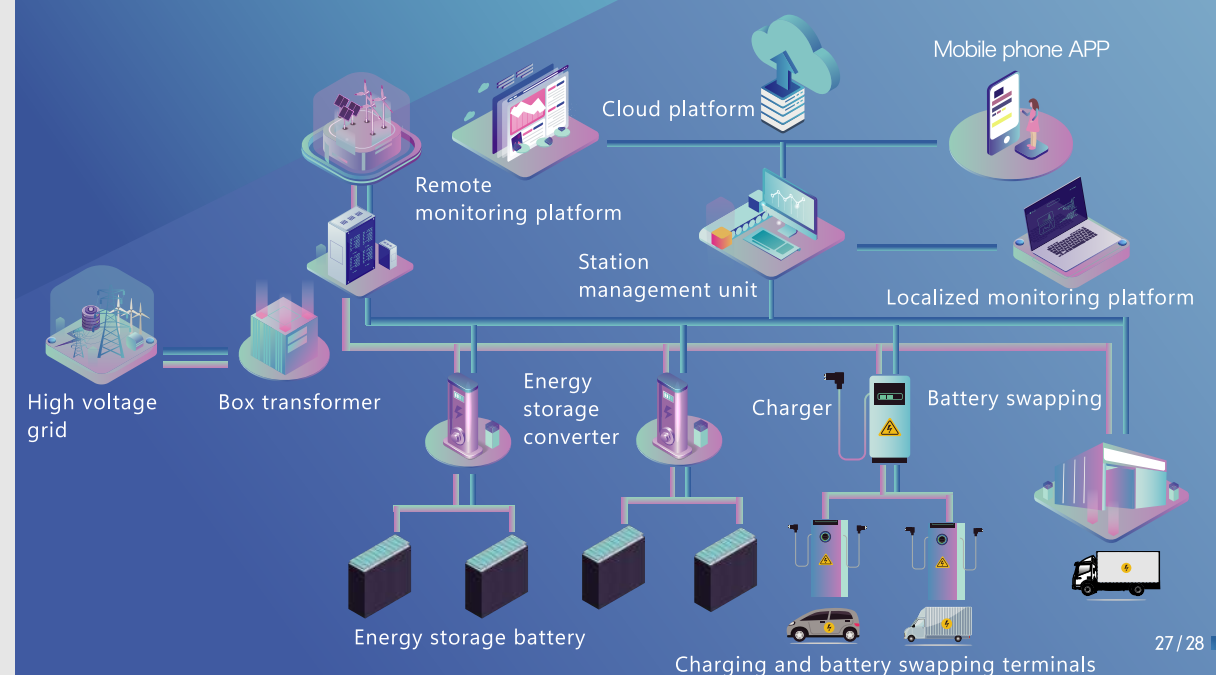
Supporting the promotion of new energy vehicles, which is conducive to solving charging difficulties

The "instant charging, instant use, and instant storage" mode not only minimizes charging losses but also addresses the charging difficulties and long charging duration, significantly advancing the new energy vehicle industry to a higher level.

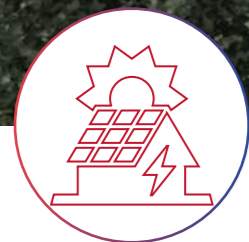
Promoting the development of smart energy interconnection

By leveraging Internet technology, PV + energy storage + charging/battery swapping and other emerging energy sources are integrated with cloud computing, big data, and artificial intelligence to drive the development of interconnected smart energy systems.

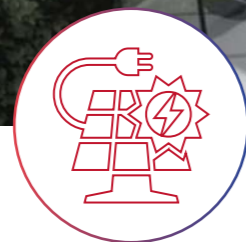
Integrated "PV-Storage-Charging-Swapping" system operation platform



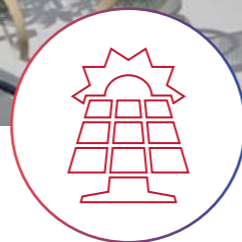
DISTRIBUTED POWER SYSTEM FOR HOUSEHOLDS



Aesthetic and stylish sunrooms bring you a zero-carbon new lifestyle



Leading brand in household heterojunction products, featuring high efficiency and yield, pleasant appearance, and excellent reliability



Enjoying full life cycle operation and maintenance services with a one-stop household photovoltaic solution

Xin Roof, Boamax's household photovoltaic product, fully utilizes unused rooftop resources to provide customers with efficient, stable, and high-quality household PV system solutions. While enhancing the aesthetics of rooftops, it also brings customers substantial economic benefits.

Higher bifacial rate

The efficiency is up to 90%, which can significantly increase the power generation capacity on the back side.

Lower temperature coefficient

Less energy loss and higher power generation in high temperature environments.

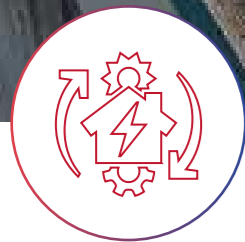
Low attenuation

In the first year, the attenuation is 1%, and the linear attenuation is 0.25%. Over its 25-year long life cycle, HJT achieves higher power generation.

More pleasant appearance

The heterojunction module simplifies complexity and exudes a minimalist aesthetic, bringing a harmonious touch to your rooftop and presenting the most beautiful side of your home.

DISTRIBUTED POWER SYSTEM FOR INDUSTRY AND COMMERCE



**Original PV,
in-depth matching**



**Flexible cooperation mode
and strong financial support**



**Long-term service
and guaranteed ability**

We offer comprehensive distributed photovoltaic system solutions for a variety of rooftop applications, encompassing public buildings, commercial structures, and smart parks. By establishing a new industrial system with clean energy as the main energy source, we contribute to the deep decarbonization of the manufacturing industry.

In-depth matching

It is compatible with various industrial rooftop structures and supports mainstream inverters and mounting racks.

Long-lasting guardianship

With a quality guarantee of 30 years, higher power generation is ensured throughout the entire life cycle, leading to improved project returns.

Financial support

We provide more vitality, flexible and diversified financing tools and financial solutions.

CLIENT SERVICE

Full Life Cycle Service

Boamax has established a strong presence in the photovoltaic field over the years, building a highly experienced technical service team dedicated to delivering more comprehensive and efficient services to customers. Our professional service team offers high-quality pre-sales system consulting service and expert after-sales solutions, ensuring an enhanced customer experience.

Global Network And Local Services

Boamax operates both domestically and internationally, and is actively establishing a global localization service network. In each region, we strive to continuously enhance our sales, logistics, and customer service teams in order to timely provide local customers with efficient solutions.



PROJECT CASES



PROJECT | Ningbo Haihong rooftop distributed PV power station

ADDRESS | Ningbo, Zhejiang Province, China



PROJECT | Weishida rooftop distributed PV power station

ADDRESS | Weifang, Shandong Province, China



PROJECT | Rooftop distributed PV power station at Zhenjiang Shipyard

ADDRESS | Zhenjiang, Jiangsu Province, China



PROJECT | KMNMT rooftop distributed PV power station

ADDRESS | Huaibei, Anhui, China



PROJECT | Bengbu Boamax rooftop distributed PV power station

ADDRESS | Bengbu, Anhui, China

PROJECT | Shaoxing Lvzhan rooftop distributed PV power station

ADDRESS | Shaoxin, Zhejiang, China

Harnessing the power of technology
Illuminating a brighter future

BOAMAX

Spanning across boundaries,

Pursuing the light

Integrating the beauty of intelligent manufacturing

Embarking towards the light

We are committed to capturing the warmth of every ray of sunshine

Empowering every community, household,

factory and industrial park with clean,

efficient, and sustainable energy solutions

Creating a new chapter of technology

Embracing a carbon-neutral and promising future