



Products Brochure

A leading global provider of smart PV energy solutions



Yingli Solar Official Website



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Yingli Energy Development Co., Ltd.

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Company Profile

The world's leading provider of smart energy solutions for photovoltaics

Yingli Energy Development Co., Ltd., known as “Yingli Solar”, which is one of the earliest Chinese companies that involved in the photovoltaic industry, has now developed into a provider of smart photovoltaic energy solutions which focuses on R&D, smart manufacturing, and development and operations of power plants. Yingli Solar has always focused on high-efficiency photovoltaic modules and power plants business. Since entering the photovoltaic industry in 1998, Yingli Solar’s photovoltaic products have been sold to more than 150 countries and regions worldwide.



Quality Strength

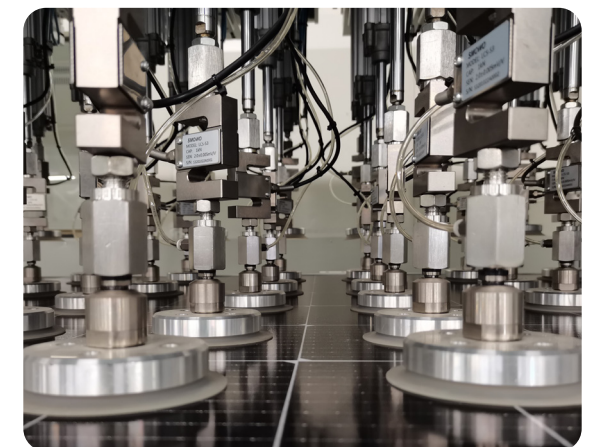
High-Level Technology Innovation Platform

Relying on Chinese national innovation platforms, academician workstation and post-doctoral workstation, Yingli Solar has made continuous efforts in independent innovation to improve its core competitiveness.

Yingli Solar’s PV Technology Laboratory is qualified by the China National Accreditation Service for Conformity Assessment (CNAS). It can tests more than 200 items related to the entire industry chain, including silicon wafers, cells, modules and power plants. while, it can meets the requirements of many international standards such as IEC61215 and IEC61730.



- National Technical Standards Innovation Base of Photovoltaic
- State Key Laboratory of Photovoltaic Materials and Cells
- National Energy Multi-mode Industrial Energy Storage Technology Research and Development Center
- National Intellectual Property Advantage Enterprises



Authoritative Quality Certification





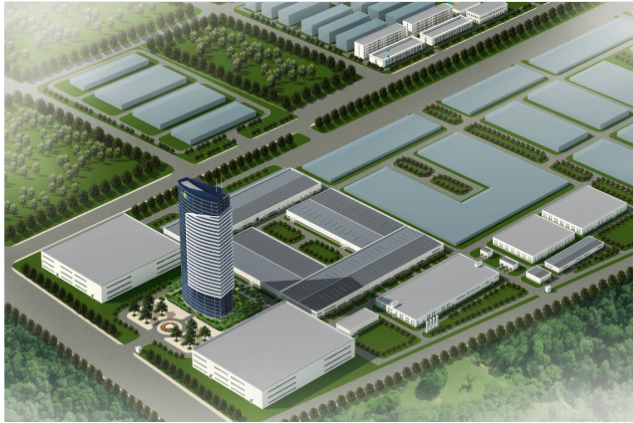
Smart Manufacturing

Focus on High-Efficiency Modules

Yingli Solar is headquartered in Baoding City, Hebei Province, China, with four smart manufacturing bases in Tianjin City, Hengshui City, Li County and Mancheng District in Baoding City. Yingli Solar adopts advanced process equipment and technology to achieve a high level automation of manufacturing, quality control and energy management in order to create a "smart factory". All these are for delivering higher quality products to customers with shorter delivery time and lower price.

Four smart manufacturing bases

Tianjin



Li county



Hengshui



Mancheng



Big Data



Smart Analysis



Digital Connections



Cloud



Zero Carbon

Products Introduction





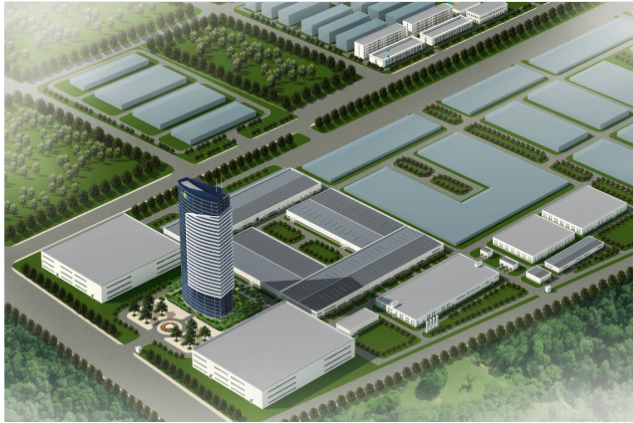
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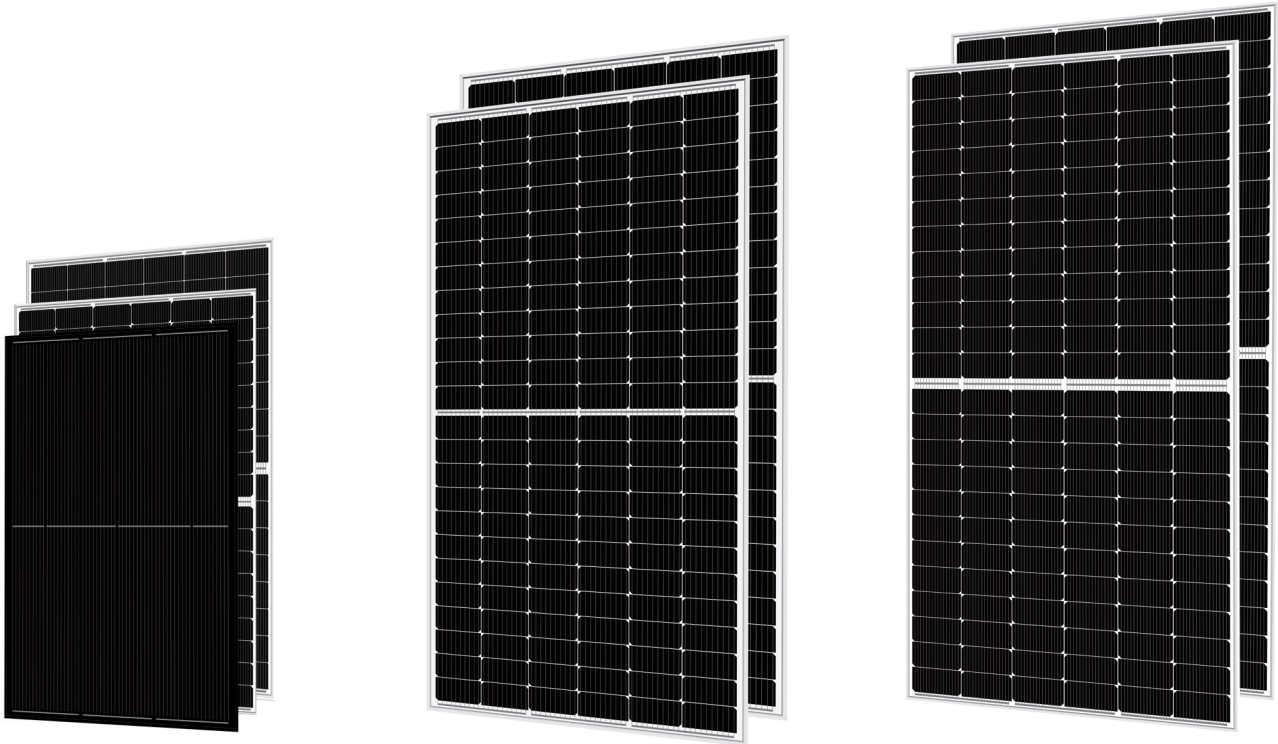
Products Introduction






Products overview

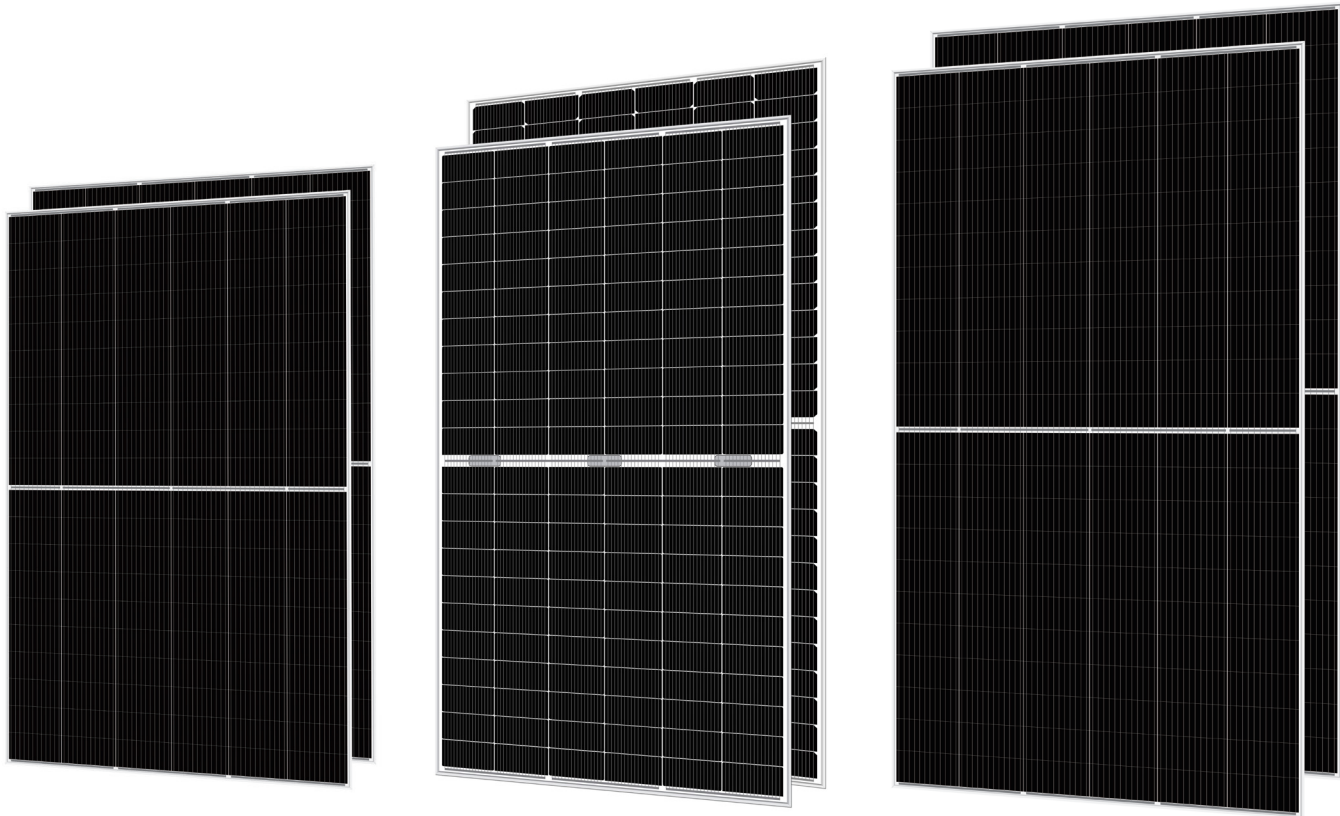
Product Details

PANDA 3.0 Series (TOPCon)	YLM 3.0 Series (PERC)
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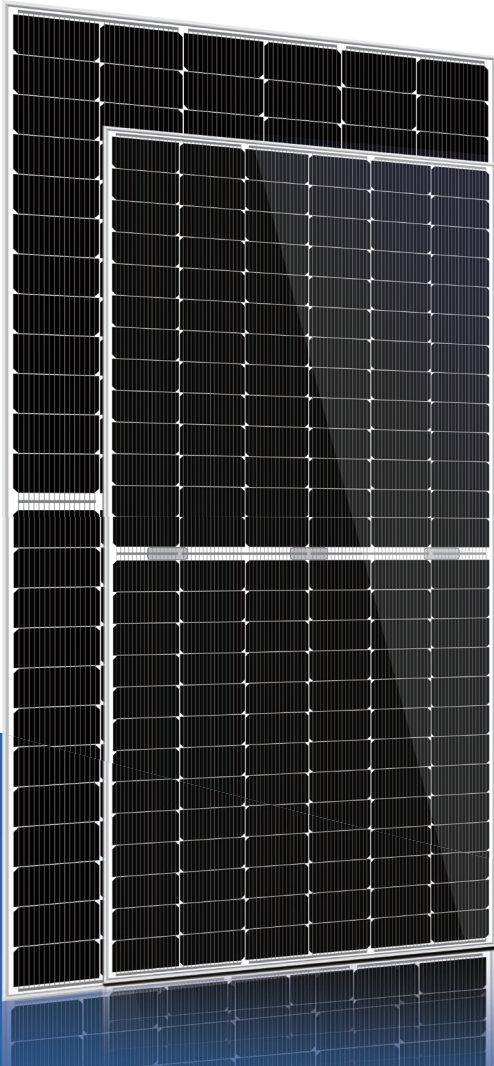
Our Products

-  Wide power range from 410 to 720 W.
-  Suitable for residential, commercial and industrial, ground mounted plants, special applications.
-  Authoritative third-party reliability certification for applications such as salt mist, ammonia, dust and sand.



panda 3.0 Series

The leader of N-type monocrystalline products



Series overview

The Leader of N-type Monocrystalline Products

PANDA 3.0 has been upgraded based on technological innovation.

	PANDA 1.0 N-type PERT	PANDA 2.0 N-type IIF	PANDA 3.0 N-type TOPCon 
Cell efficiency	20.5%	21.0%	26.0%
Bifaciality coefficients	78.0%	80.0%	85.0%
1st-year degradation	2.0%	2.0%	1.0%
Annual degradation	0.6%	0.5%	0.4%
Module power	285 W	300 W	700 W+

Multi-dimensional innovative design of PANDA 3.0 series



Panda 3.0 Series

The Pioneer of N-type Monocrystal Technology

Yingli Solar has been researching and industrialising N-type monocrystalline silicon bifacial cells and modules since 2009, and is a pioneer in the development and mass production of N-type technology. Yingli Solar was awarded the right to develop the 50 MW ground-mounted power plant project in Datong, Shanxi, the first national advanced technology PV demonstration base under the National "Leader" Program. Yingli Solar's self-developed Panda bifacial modules, which have the advantages of high power generation capacity, good weather resistance and wide range of applications, are the first bifacial power generation products in the world to be certified by CGC, UL and TÜV Rheinland.

Cooperated with ECN, Tempress and others to research and develop N-type high-efficiency cell technology, and established PANDA project team.

Received the First-class Award of Science & Technology Progress Prize of China Renewable Energy Society
the Second-class Award of Science & Technology Progress Prize of National Energy Administration
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Acquired the right to develop bifacial PV plant projects in the first batch of national "Top Runner" advanced technology demonstration base.

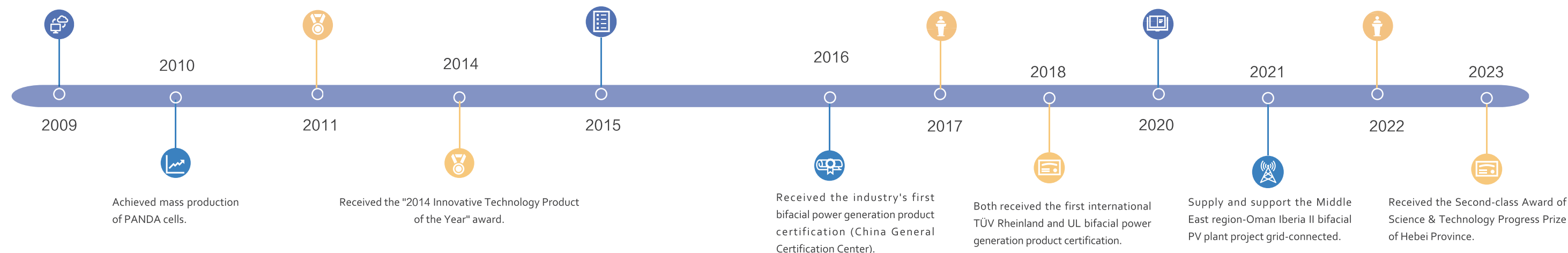
The Pioneer of N-type Monocrystal Technology

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Received the "Dual Glass+" Bifacial Power Generation Technology Innovation Contribution Award at the 3rd "TOP Runner" Innovation Forum.

Released two group standards for bifacial photovoltaic power generation to fill the gap in China's bifacial power generation product testing standards.

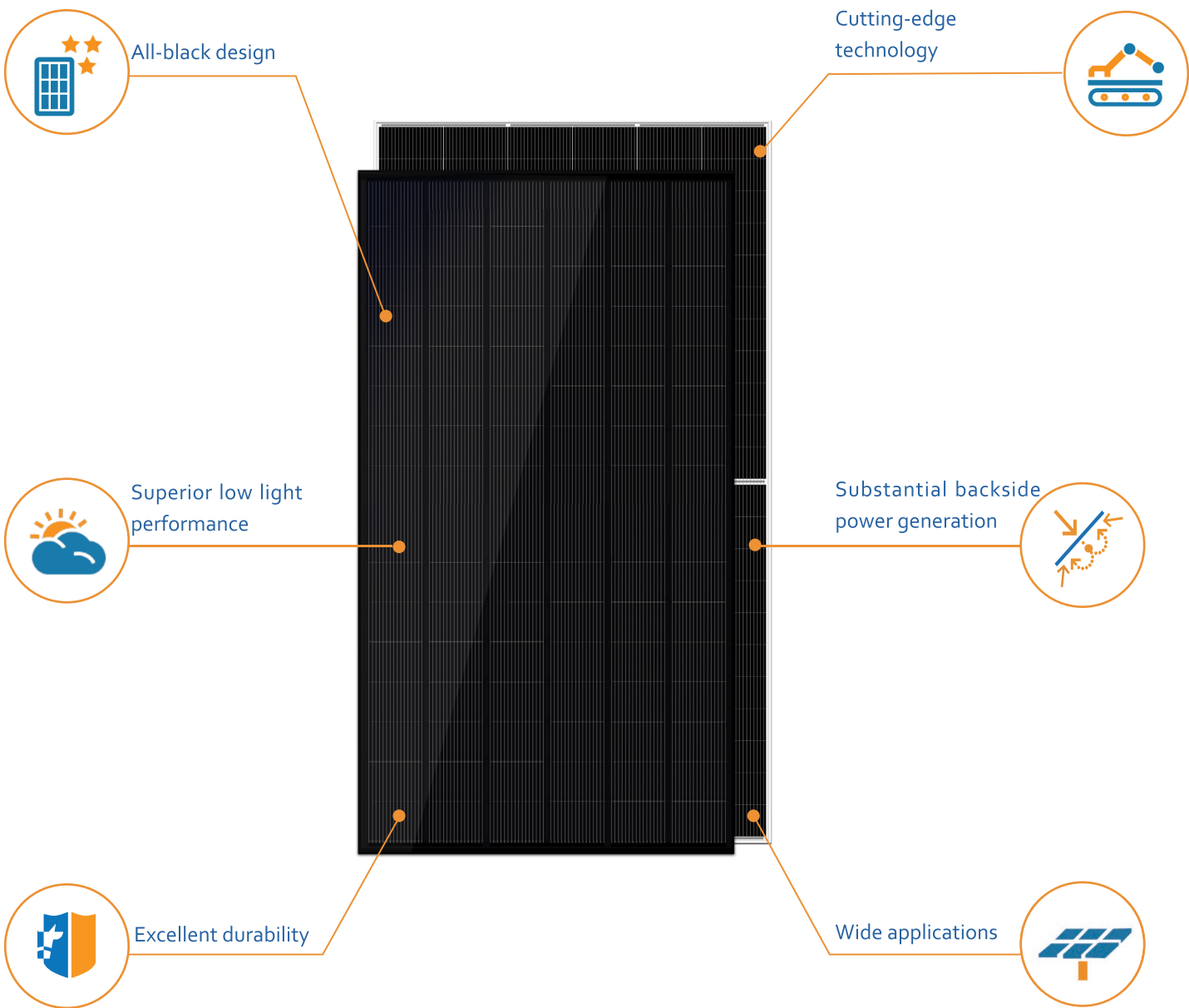
Launched PANDA 3.0 series



Product Strength

TOPCon Module

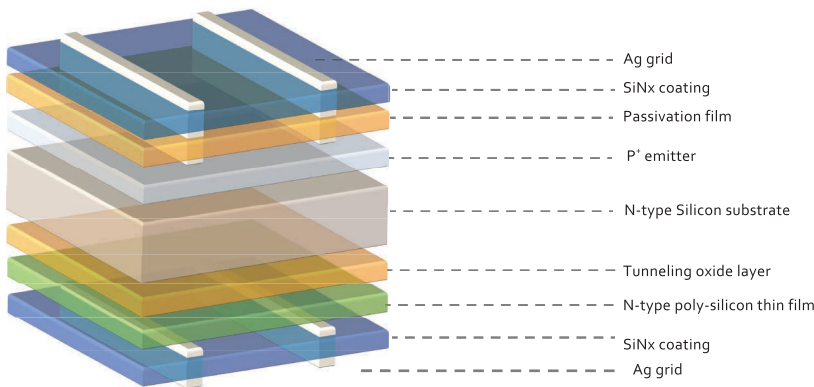
panda 3.0 Series



Product Advantages

Better Cell Performance

Multi composite films passivation technology on the front side and tunnel oxide passivation contacts technology on the rear side to enhance the Voc of the cell with bifaciality coefficient up to 90%.



Lower Temperature Coefficient

Temperature coefficient reaching -0.29% , more outstanding power generation in high temperature condition.

TOPCon modules

$-0.29\%/^{\circ}\text{C}$

Power	Temperature
472 W	85°C
489 W	75°C
506 W	65°C
523 W	55°C
541 W	45°C
558 W	35°C
575 W	25°C

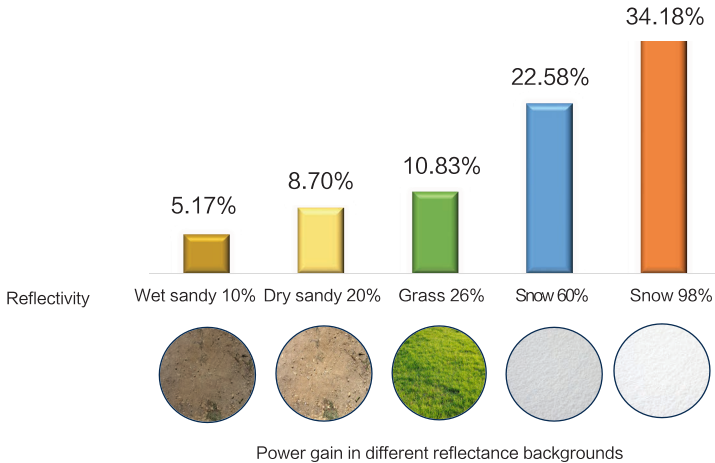
PERC modules

$-0.35\%/^{\circ}\text{C}$

Power	Temperature
454 W	85°C
474 W	75°C
495 W	65°C
515 W	55°C
535 W	45°C
555 W	35°C
575 W	25°C



Higher Backside Power Generation in Typical Environments



Case Information: Hebei Baoding, 100 MW, Fixed Tilt 2P

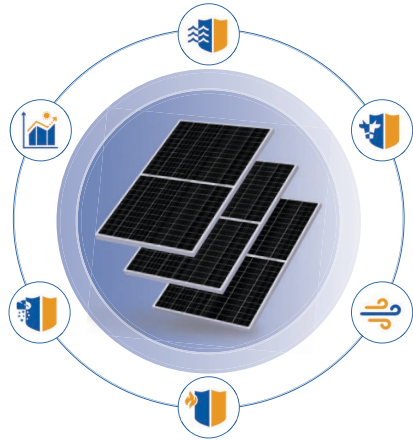
Module Information: TOPCon Module

Product Classification

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Complete System and Product Certifications

- IEC 61215: 2023, IEC 61730: 2021
- ISO 9001: 2015 (Quality management systems)
- ISO 14001: 2015 (Environmental management systems)
- ISO 45001: 2018 (Occupational health and safety management systems)
- IEC 62941: 2019 (Terrestrial photovoltaic (PV) modules- Quality system for PV module manufacturing)



Basic certificate Anti-PID 192 hours Sand and Dust Salt Mist and Ammonia Corrosion LETID Dynamic Mechanical Load

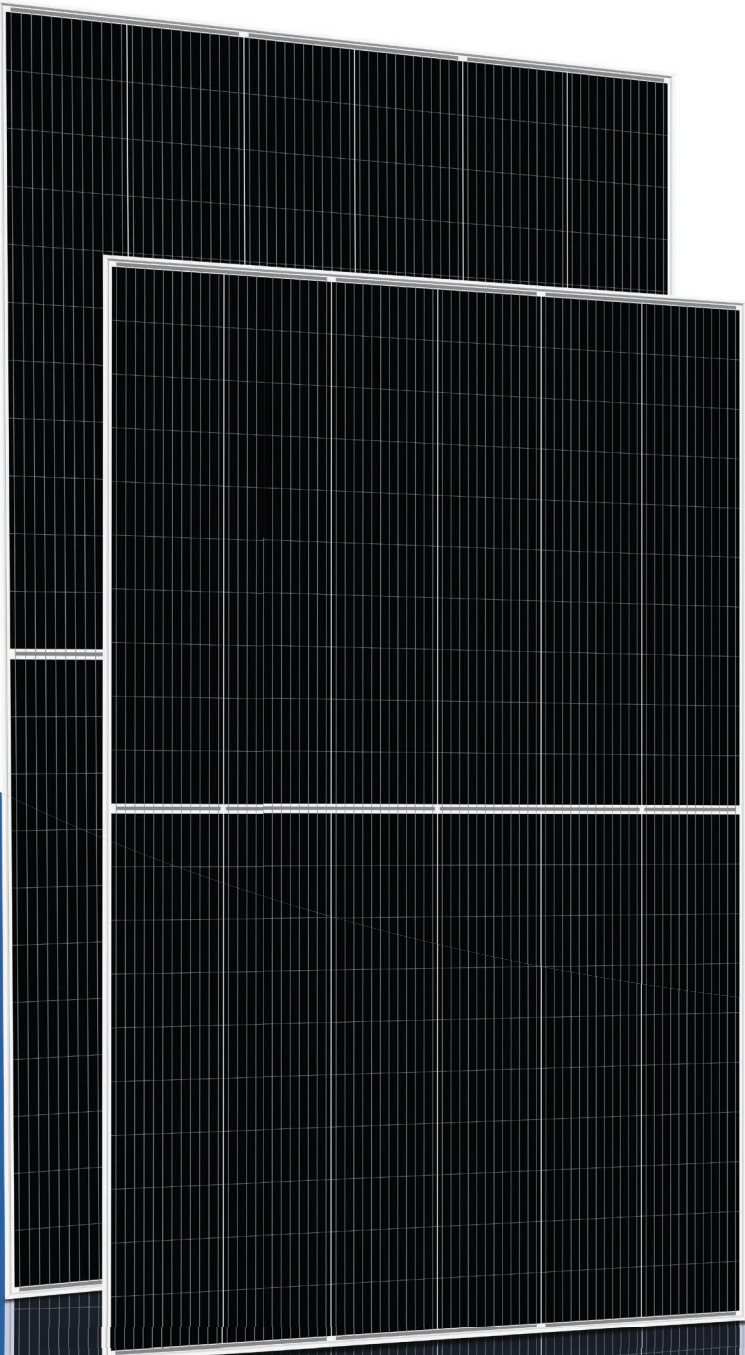
Basic and Differentiated Certificates

PANDA 3.0 Series

Product Name	Cell Size	Module Type	Power (w)	Cell number (pcs)	Module dimensions (mm)	Weight (kg)	Bifaciality Coefficient (%)
PANDA 3.0 Mini 1	M10	YLxxxCF54 e/2	430–440	108	1722*1134*30	20.6	80 ± 5
PANDA 3.0 Mini 2	210R	YLxxxCF48 i/2	435–455	96	1762*1134*30	21.0	80 ± 5
PANDA 3.0 PRO 1	M10	YLxxxCF72 e/2	575–590	144	2278*1134*30	32.0	80 ± 5
PANDA 3.0 PRO 1	M10	YLxxxCF78 e/2	620–635	156	2465*1134*30	35.0	80 ± 5
PANDA 3.0 PRO 2	210R	YLxxxCF66 i/2	605–620	132	2382*1134*30	33.9	80 ± 5
PANDA 3.0 PLUS 1	G12	YLxxxCF60 f/2	625–650	120	2172*1303*33	34.6	80 ± 5
PANDA 3.0 PLUS 1	G12	YLxxxCF66 f/2	695–720	132	2384*1303*33	37.3	80 ± 5

Note: The datesheets of the above products may be updated irregularly, and you can consult or download them through the contact information provided on the back cover of the brochure. In addition, our company can provide customized products for customers.

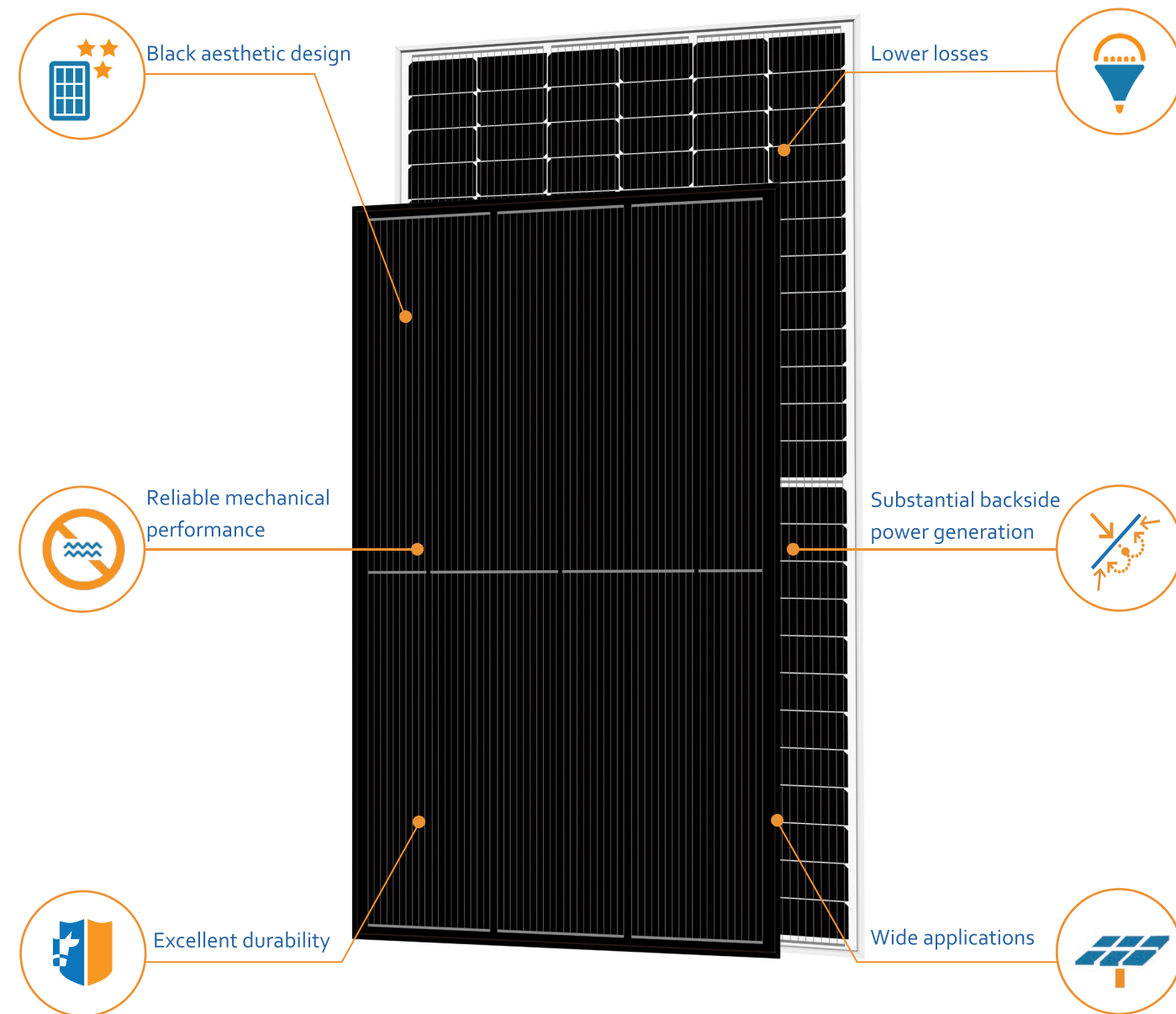
YLM 3.0 Series



Product Strength

182PERC Module

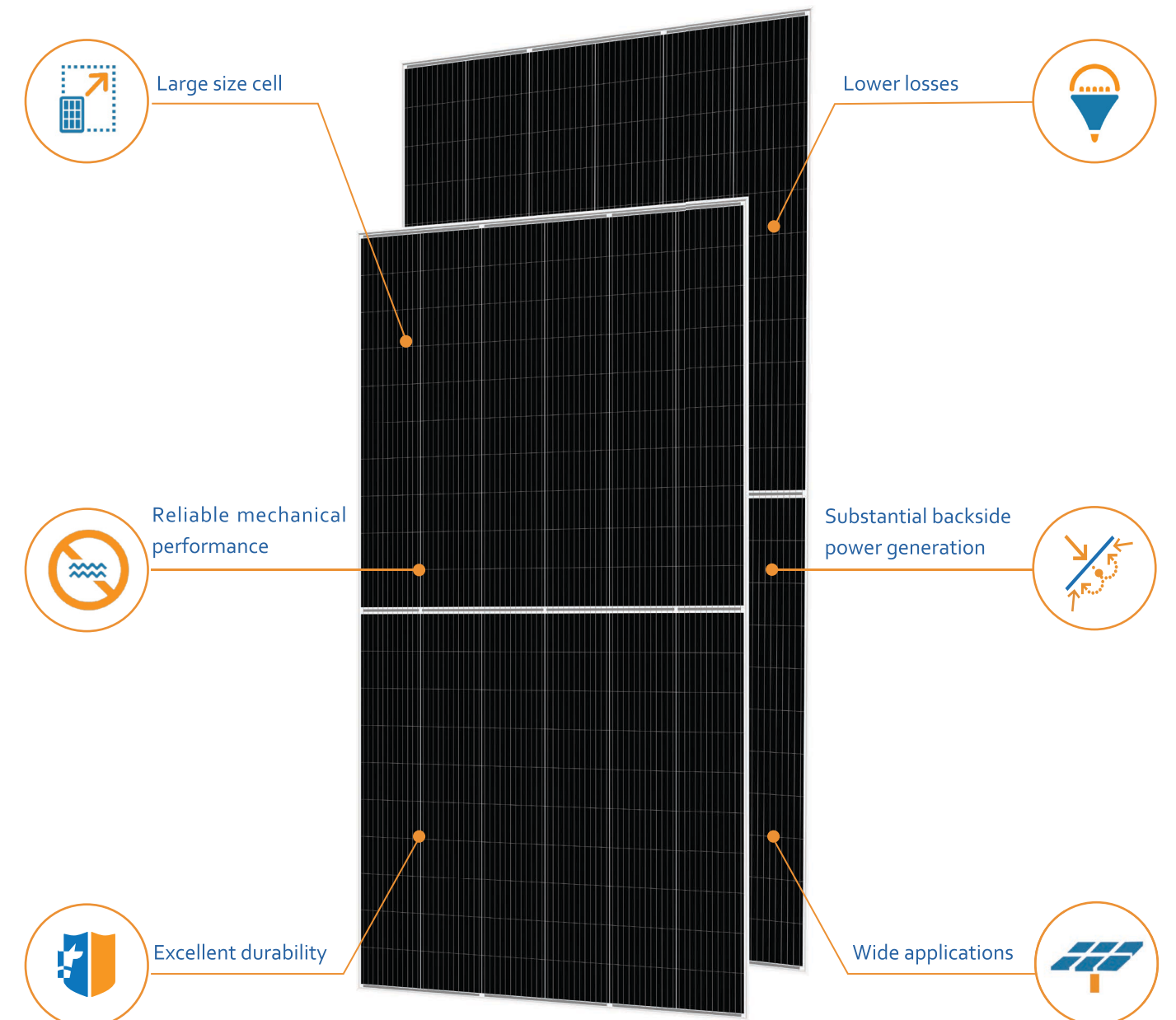
YLM 3.0 Mini
YLM 3.0 PRO



Product Strength

210PERC Module

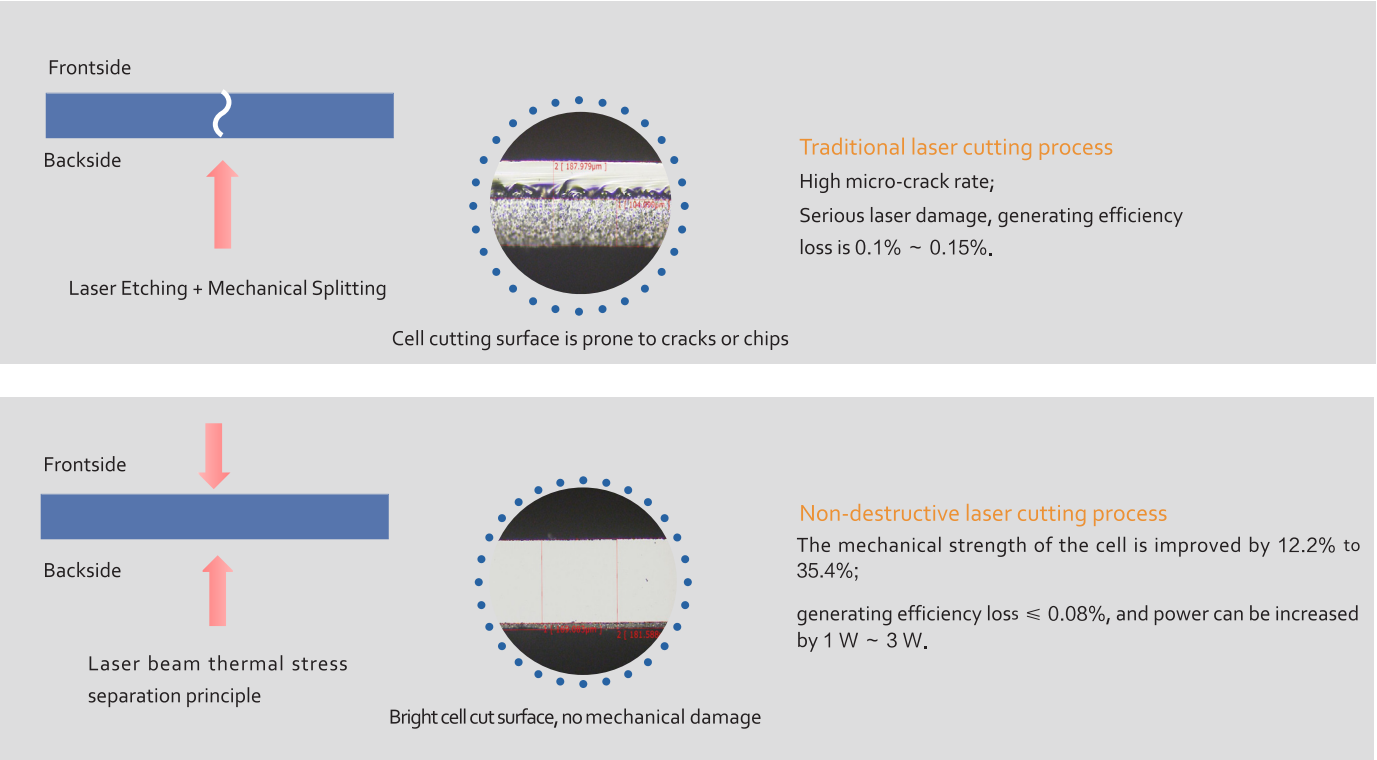
YLM 3.0 PLUS



Product Advantages

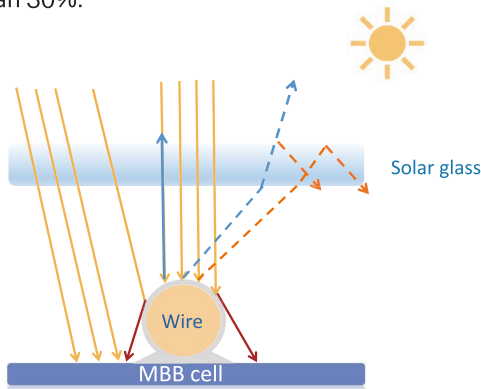
Low Temperature Non-destructive Cutting Technology

Non-destructive cutting, smooth cut surface, no silicon body cutting damage, no micro-cracks.

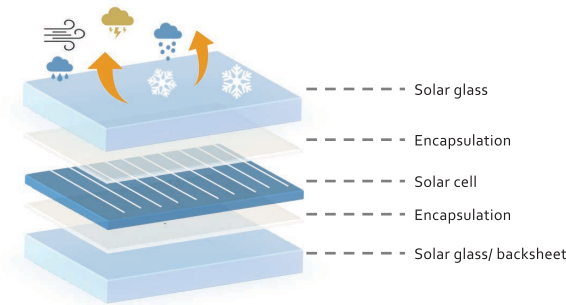


High Power and High Reliability Encapsulation Technology

MBB cell technology reduces micro-crack and broken grids risks effectively. The use of circular ribbon instead of flat ribbon for metal interconnection can increase the optical utilization rate of the ribbon area by more than 30%.



Special material compatibility, ultra-strong frames and high-reliability encapsulation technology enable module performances beyond the IEC standard test requirements, with the ability to resist risks such as salt mist, ammonia, dust and sand, and PID.



Product Classification

Complete Product Certification System

YLM 3.0 series includes glass/glass modules and glass/backsheet modules using high efficiency PERC cells. With high quality encapsulation materials, YLM 3.0 modules are perfectly suited to the harsh environment and provide you with high reliability and quality assurance.



YLM 3.0 Series (182 mm PERC cell)

	Module Type	Power (W)	Cell Number (pcs)	Module Dimensions (mm)	Weight (kg)	Bifaciality Coefficients (%)
Glass/Backsheet module	YLxxxD-37e 1500V 1/2	410-415	108	1722*1134*30	21.5	/
	YLxxxD-49e 1500V 1/2	545-555	144	2278*1134*30	28.0	/
Glass/Glass module	YLxxxDF54 e/2	410-415	108	1722*1134*30	24.8	70 ± 5
	YLxxxDF72 e/2	545-555	144	2278*1134*30	32.0	70 ± 5

YLM 3.0 Series (210 mm PERC cell)

	Module Type	Power (W)	Cell Number (pcs)	Module Dimensions (mm)	Weight (kg)	Bifaciality Coefficients (%)
Glass/Backsheet module	YLxxxD-41f 1500V 1/2	600-610	120	2172*1303*35	31.0	/
	YLxxxD-45f 1500V 1/2	660-670	132	2384*1303*35	34.0	/
Glass/Glass module	YLxxxDF60 f/2	600-610	120	2172*1303*35	35.1	70 ± 5
	YLxxxDF66 f/2	660-670	132	2384*1303*35	38.4	70 ± 5

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117 MW N-Type bifacial PV plant in Iberia, Oman

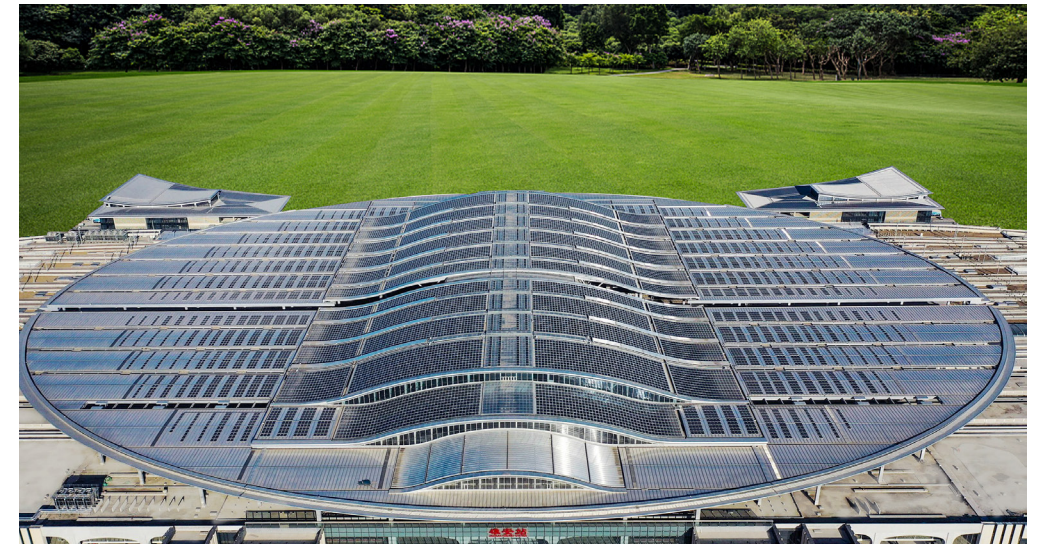


233 MW ground-mounted PV plant in Algeria - "Energy Oasis" in the Sahara Desert



240 MW PV plant of Internet plus smart energy in Zhangbei County, Hebei Province, China

Trust
Delivery
Growth
Sharing



6 MW rooftop distributed plant at High-speed Railway Station in Xiongan, China



47MW integration of animal husbandry and photovoltaics project in Tiandeng County, Guangxi Province, China

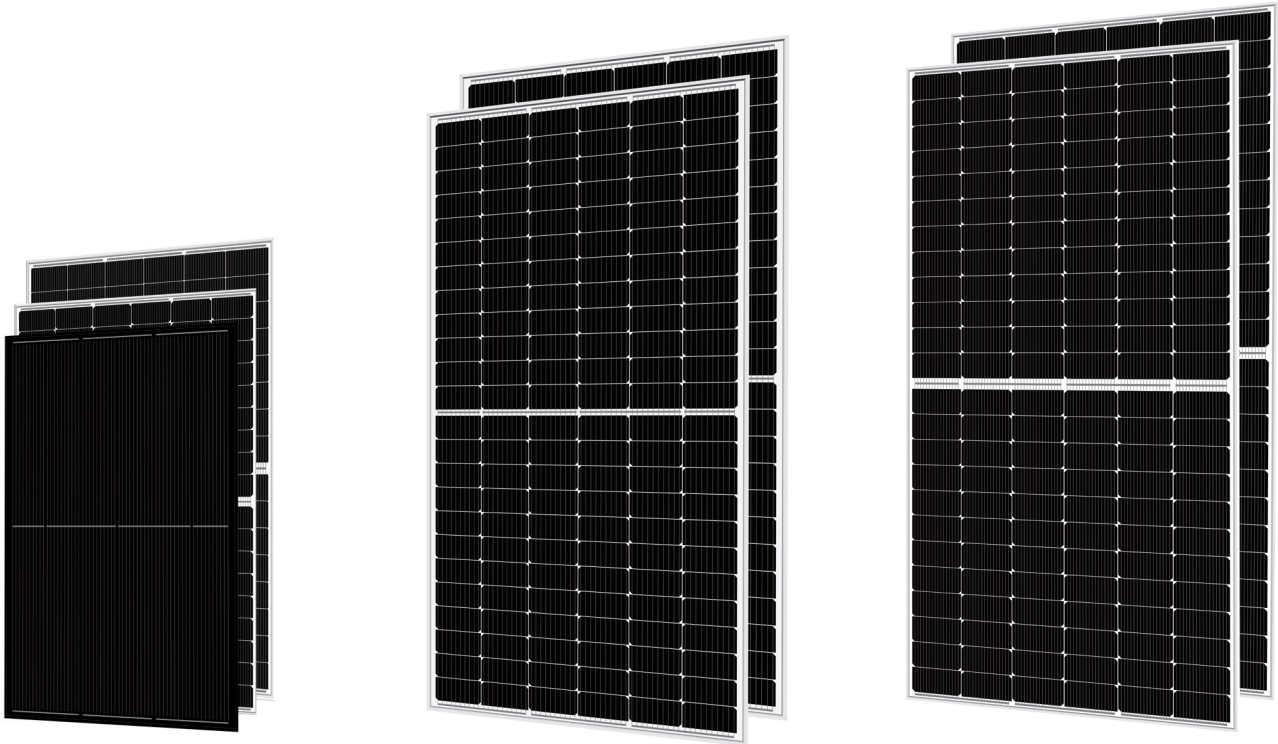


50 MW N-Type bifacial PV plant of national "Top Runner" advanced technology demonstration base in Datong, Shanxi Province, China




Products overview

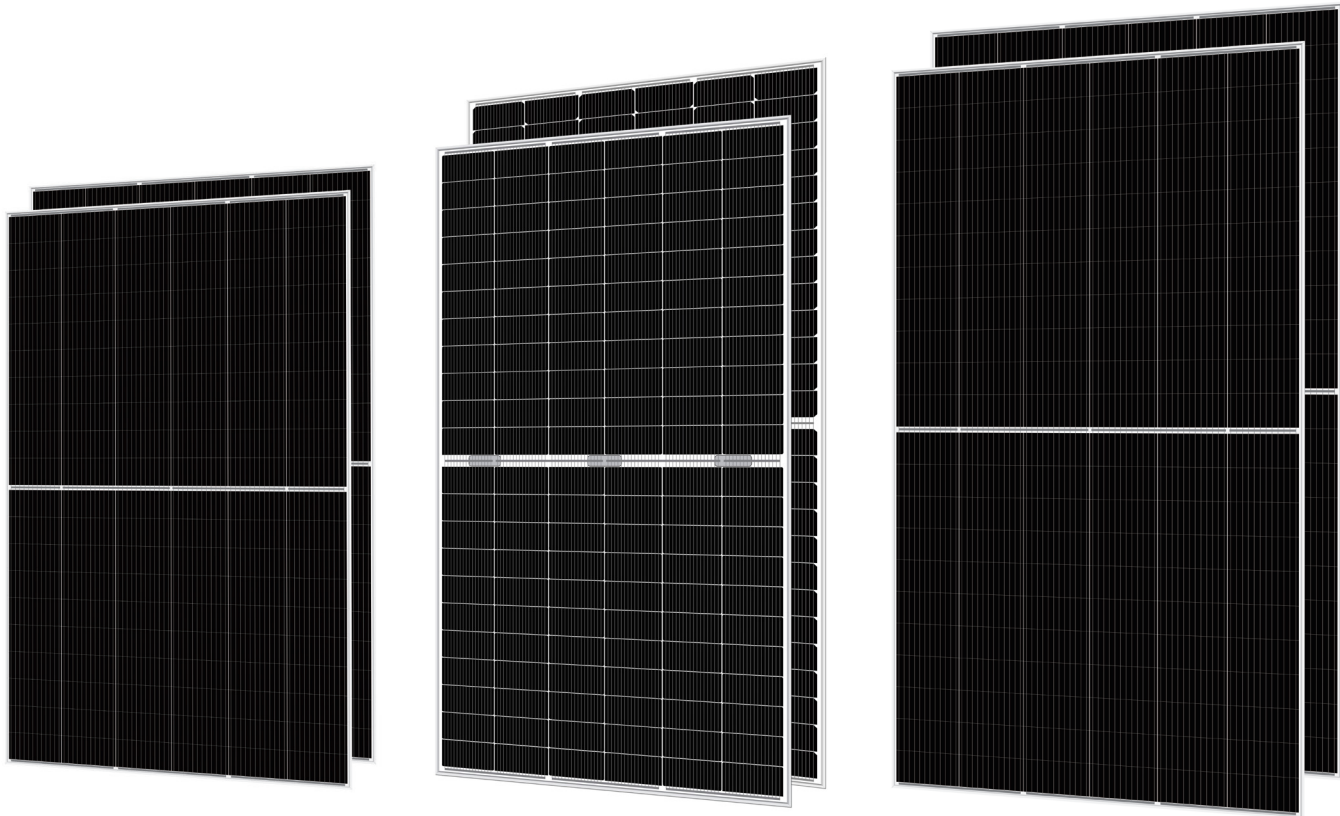
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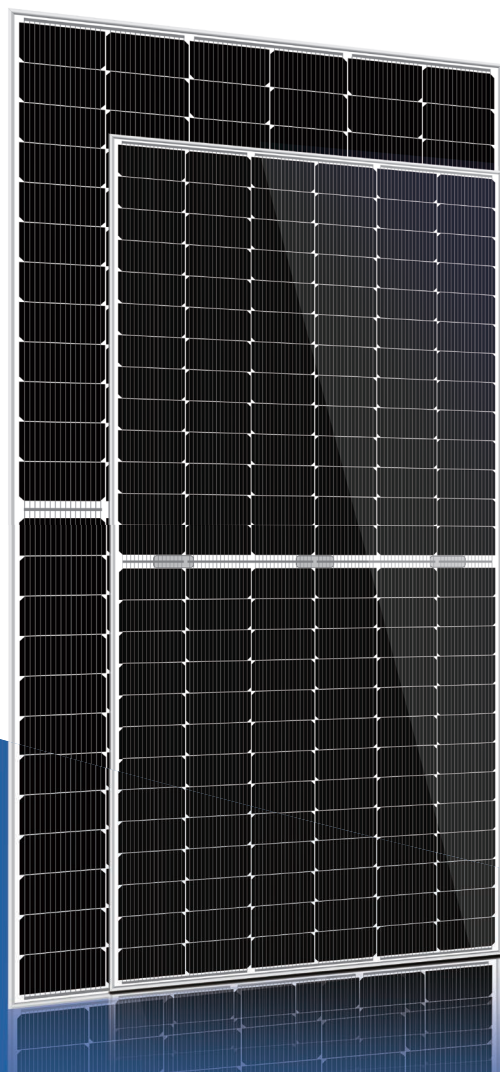
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panda 3.0 Series

The leader of N-type monocrystalline products



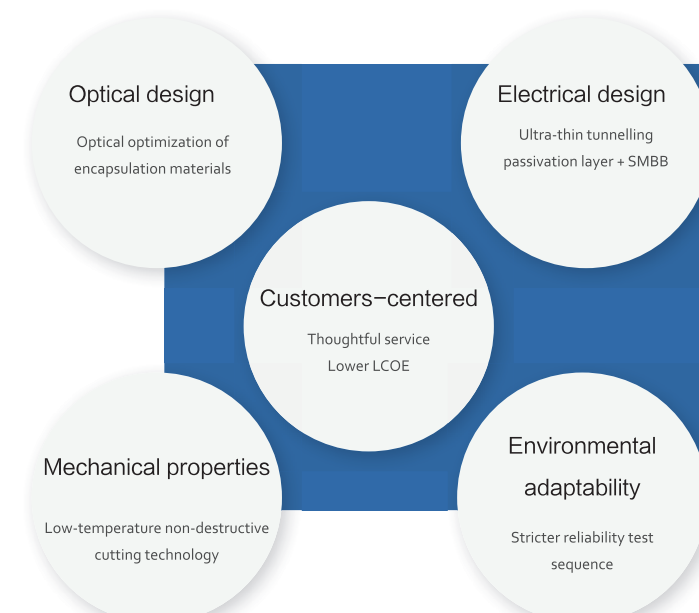
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Annual degradation	0.6%	0.5%	0.4%
Module power	285 W	300 W	700 W+

Multi-dimensional innovative design of PANDA 3.0 series



The Pioneer of N-type Monocrystal Technology

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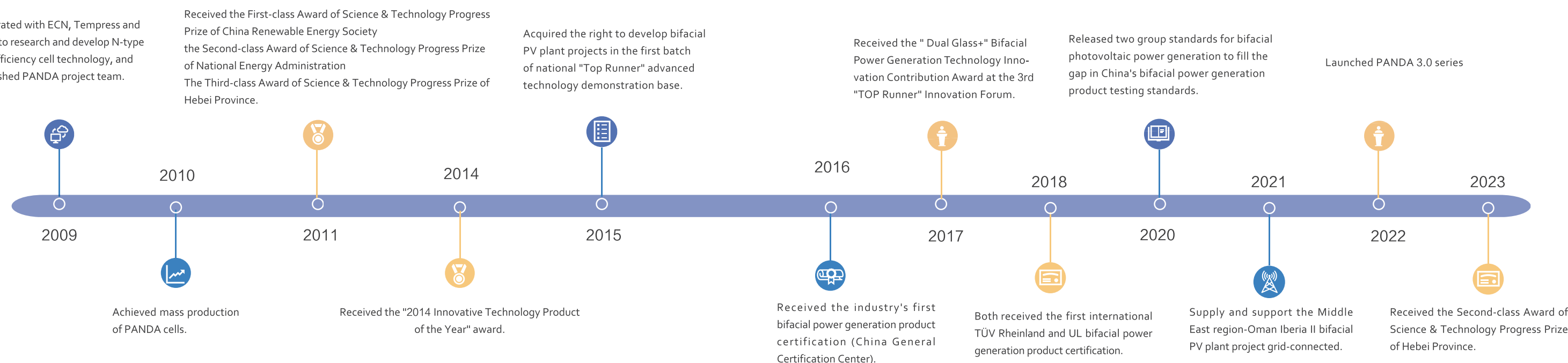
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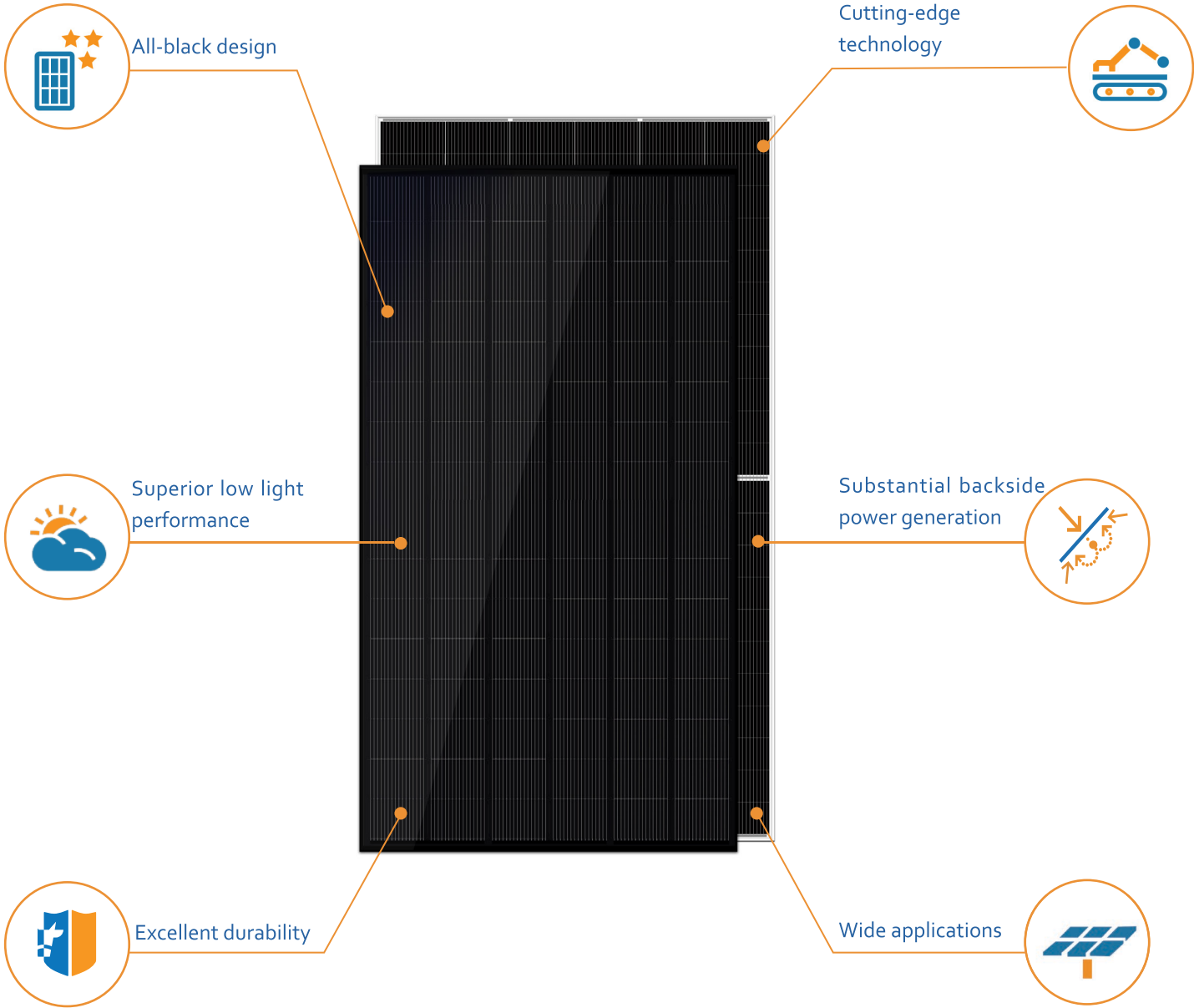
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Product Strength

TOPCon Module

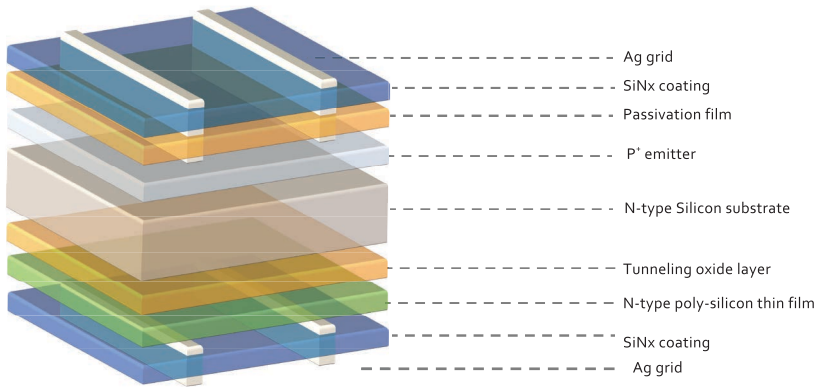
panda 3.0 Series



Product Advantages

Better Cell Performance

Multi composite films passivation technology on the front side and tunnel oxide passivation contacts technology on the rear side to enhance the Voc of the cell with bifaciality coefficient up to 90%.



Lower Temperature Coefficient

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TOPCon modules

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Power	Temperature
472 W	85°C
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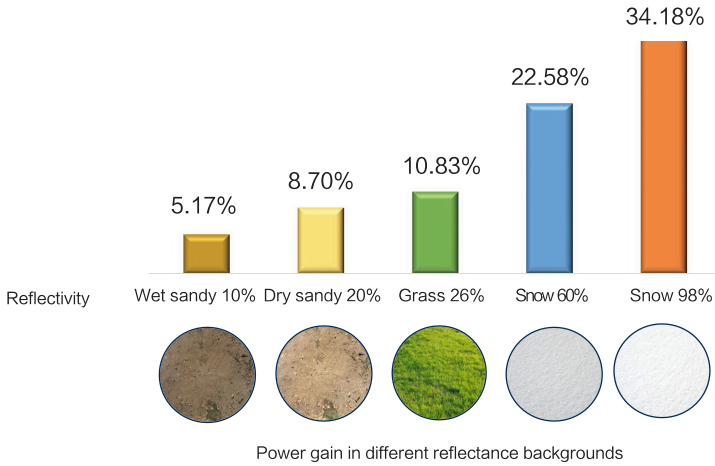
PERC modules

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Higher Backside Power Generation in Typical Environments



Case Information: Hebei Baoding, 100 MW, Fixed Tilt 2P

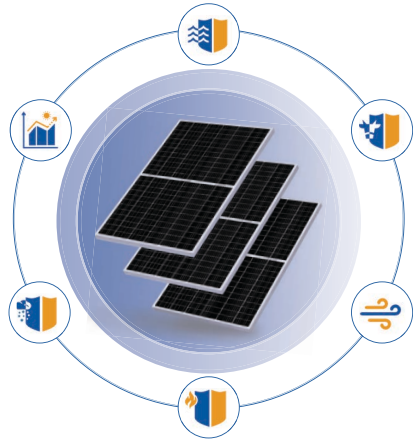
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Basic certificate Anti-PID 192 hours Sand and Dust Salt Mist and Ammonia Corrosion LETID Dynamic Mechanical Load

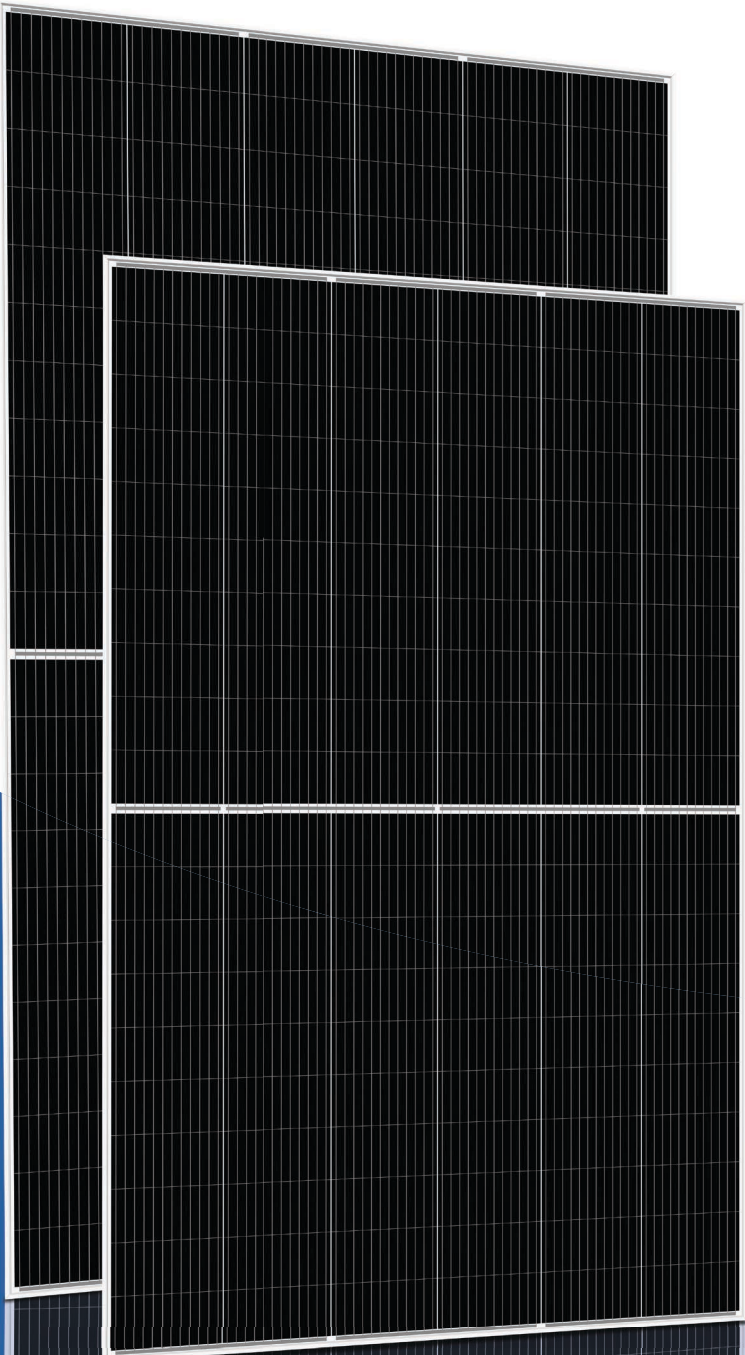
Basic and Differentiated Certificates

PANDA 3.0 Series

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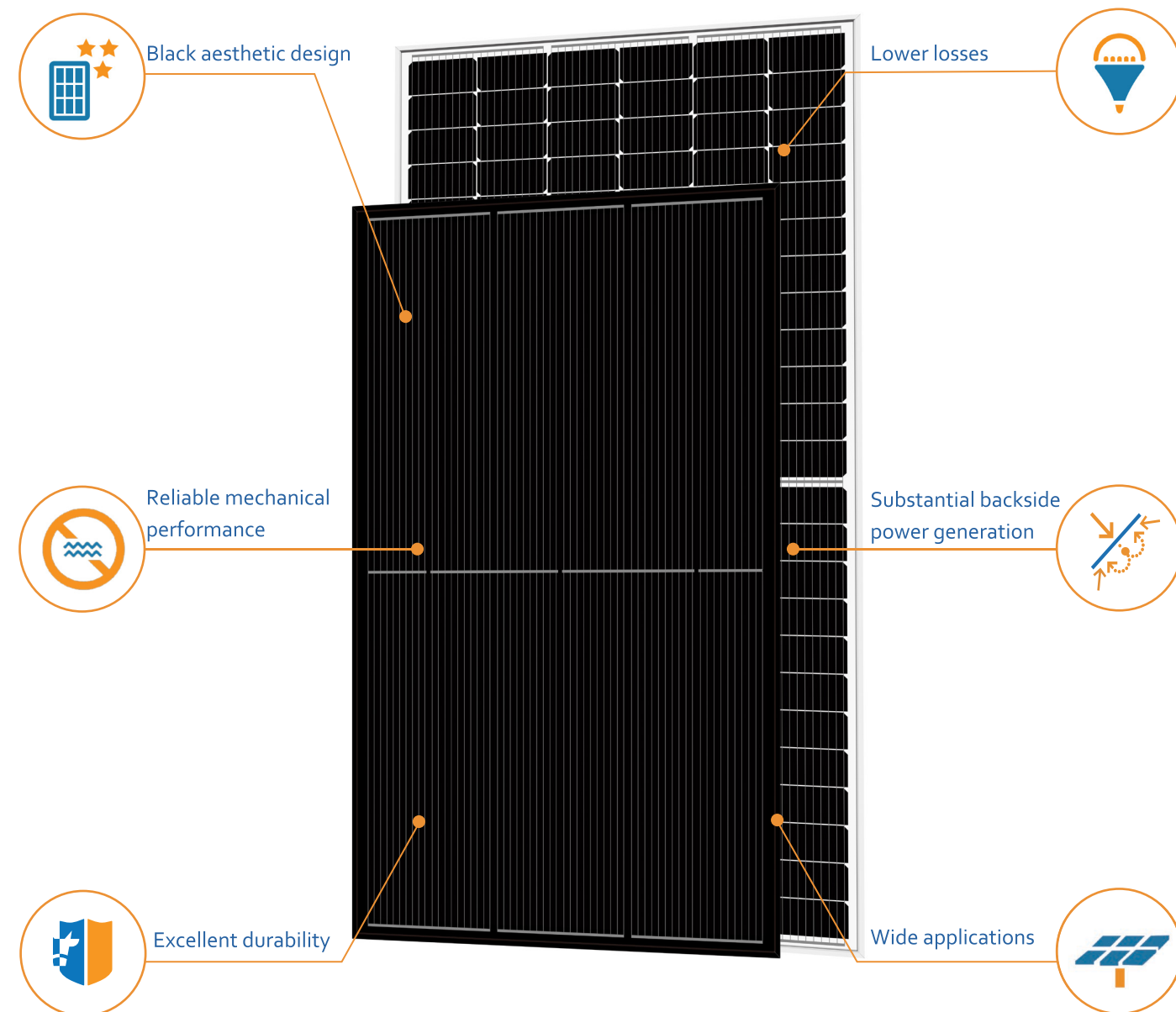
YLM 3.0 Series



Product Strength

182PERC Module

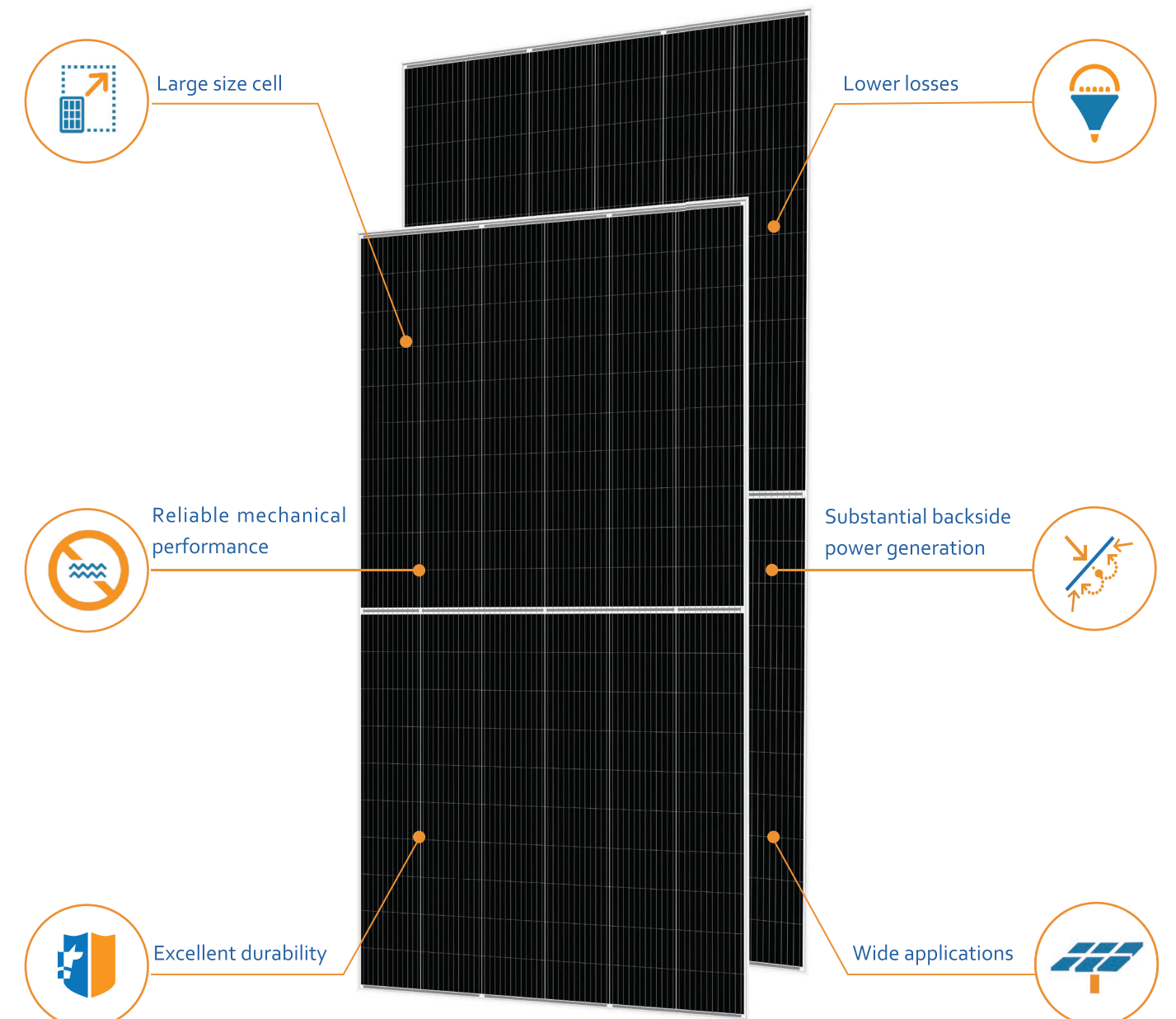
YLM 3.0 Mini
YLM 3.0 PRO



Product Strength

210PERC Module

YLM 3.0 PLUS



Product Advantages

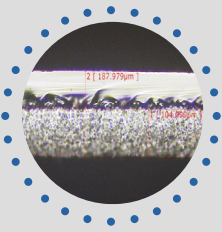
Low Temperature Non-destructive Cutting Technology

Non-destructive cutting, smooth cut surface, no silicon body cutting damage, no micro-cracks.

Frontside

Backside

Laser Etching + Mechanical Splitting



Cell cutting surface is prone to cracks or chips

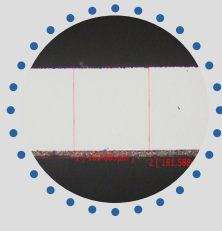
Traditional laser cutting process

High micro-crack rate;
Serious laser damage, generating efficiency loss is 0.1% ~ 0.15%.

Frontside

Backside

Laser beam thermal stress separation principle



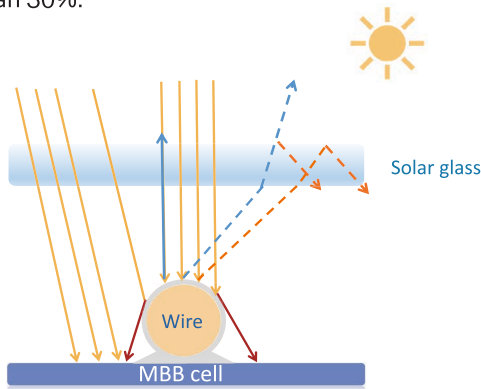
Bright cell cut surface, no mechanical damage

Non-destructive laser cutting process

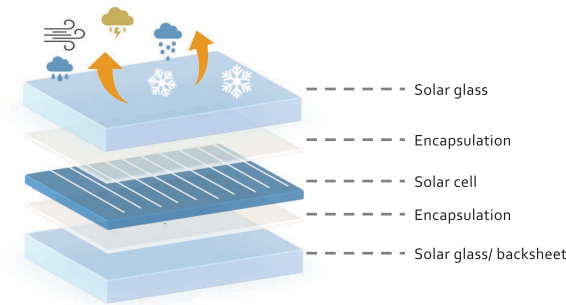
The mechanical strength of the cell is improved by 12.2% to 35.4%;
generating efficiency loss \leq 0.08%, and power can be increased by 1 W ~ 3 W.

High Power and High Reliability Encapsulation Technology

MBB cell technology reduces micro-crack and broken grids risks effectively. The use of circular ribbon instead of flat ribbon for metal interconnection can increase the optical utilization rate of the ribbon area by more than 30%.



Special material compatibility, ultra-strong frames and high-reliability encapsulation technology enable module performances beyond the IEC standard test requirements, with the ability to resist risks such as salt mist, ammonia, dust and sand, and PID.



Product Classification

Complete Product Certification System

YLM 3.0 series includes glass/glass modules and glass/backsheet modules using high efficiency PERC cells. With high quality encapsulation materials, YLM 3.0 modules are perfectly suited to the harsh environment and provide you with high reliability and quality assurance.



Basic certificate



Certificate: anti-PID 192 hours



Certificate: Sand and Dust resistance



Certificate: Ammonia Corrosion resistance

Glass/Glass and Glass/Backsheet modules certificate

YLM 3.0 Series (182 mm PERC cell)

	Module Type	Power (W)	Cell Number (pcs)	Module Dimensions (mm)	Weight (kg)	Bifaciality Coefficients (%)
Glass/Backsheet module	YLxxxD-37e 1500V 1/2	410-415	108	1722*1134*30	21.5	/
	YLxxxD-49e 1500V 1/2	545-555	144	2278*1134*30	28.0	/
Glass/Glass module	YLxxxDF54 e/2	410-415	108	1722*1134*30	24.8	70 ± 5
	YLxxxDF72 e/2	545-555	144	2278*1134*30	32.0	70 ± 5

YLM 3.0 Series (210 mm PERC cell)

	Module Type	Power (W)	Cell Number (pcs)	Module Dimensions (mm)	Weight (kg)	Bifaciality Coefficients (%)
Glass/Backsheet module	YLxxxD-41f 1500V 1/2	600-610	120	2172*1303*35	31.0	/
	YLxxxD-45f 1500V 1/2	660-670	132	2384*1303*35	34.0	/
Glass/Glass module	YLxxxDF60 f/2	600-610	120	2172*1303*35	35.1	70 ± 5
	YLxxxDF66 f/2	660-670	132	2384*1303*35	38.4	70 ± 5

Note: The datesheets of the above products may be updated irregularly, and you can consult or download them through the contact information provided on the back cover of the brochure. In addition, our company can provide customized products for customers.



117 MW N-Type bifacial PV plant in Iberia, Oman

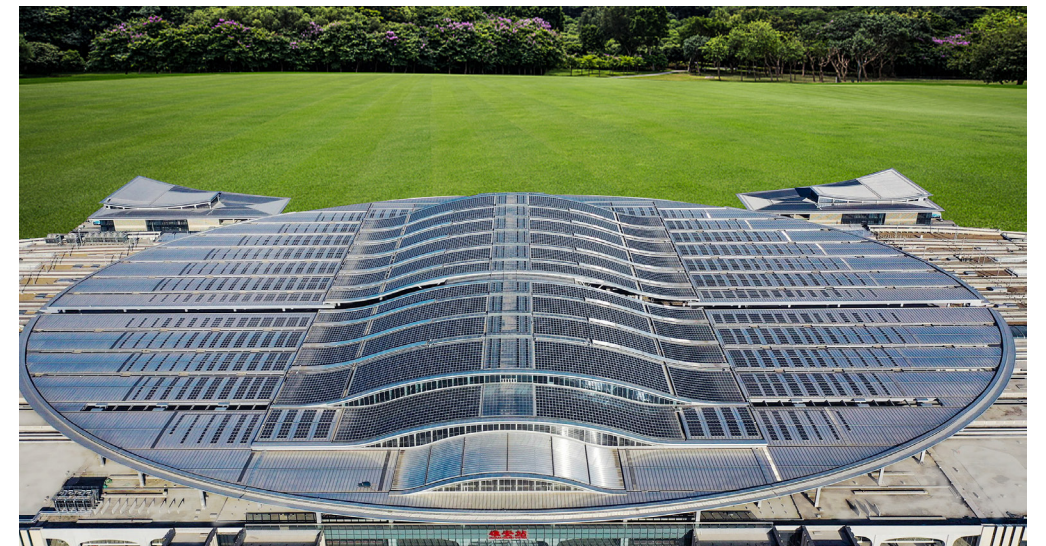


233 MW ground-mounted PV plant in Algeria - "Energy Oasis" in the Sahara Desert



240 MW PV plant of Internet plus smart energy in Zhangbei County, Hebei Province, China

Trust
Delivery
Growth
Sharing



6 MW rooftop distributed plant at High-speed Railway Station in Xiongan, China



47MW integration of animal husbandry and photovoltaics project in Tiandeng County, Guangxi Province, China



50 MW N-Type bifacial PV plant of national "Top Runner" advanced technology demonstration base in Datong, Shanxi Province, China