



Energy-efficient Coatings
for Construction and Architecture

BIPV



Colored Crystalline Silicon Photovoltaic Building Materials (BIPV)
Replace traditional glass curtain wall for building facade

BIPV: What is it?

BIPV stands for Building Integrated Photovoltaics. It refers to the integration of photovoltaic materials into various building components, replacing traditional materials in parts of the building envelope such as roofs, skylights, or facades.

BIPV systems capture sunlight, both direct and indirect, to convert it into energy. They can be crafted in a wide range of sizes, shapes, colors, and textures, offering endless customization options. This capability enhances aesthetic appeal while ensuring architectural integration with energy and environmental sustainability.

Solar energy is unlimited, safe, clean, and free: it is the only truly "social" green energy source, accessible to everyone. Today, it is within reach for anyone who wishes to use it.

Thanks to BIPV, buildings transform into small, autonomous power plants that are often self-sufficient. These systems provide an extraordinary and innovative solution to decarbonize our nation's real estate assets, aiming for climate neutrality through socially responsible energy sustainability.

Moreover, the solutions for installing BIPV are highly sustainable. Options include facades, veranda systems, bio-climatic structures, balaustras, balconies, roof skylights, roof tiles, carports, and more. These integrate seamlessly into existing structures, making BIPV a versatile and eco-friendly choice.





Colored Glaze·Colorful (Bright)

Colored Crystalline Silicon Photovoltaic Building Materials (BIPV)

Replace traditional glass curtain wall for building facade

≥ 24 %
Efficiency



Self-developed coloring technique

Beauty: Rich color, high brightness, more transparent, present different texture in sunshine

Fastness: Durable and stable for colors for whole life

High-efficiency: Highest efficiency cells ,more power generation

Customization: color, size and shape can be customized

30 YEAR
Warranty 30 years



Energy-saving, clean and environmentally-friendly

Energy-saving: Reduce building energy consumption

Energy generation: Solar power generation for clean energy to support carbon neutral

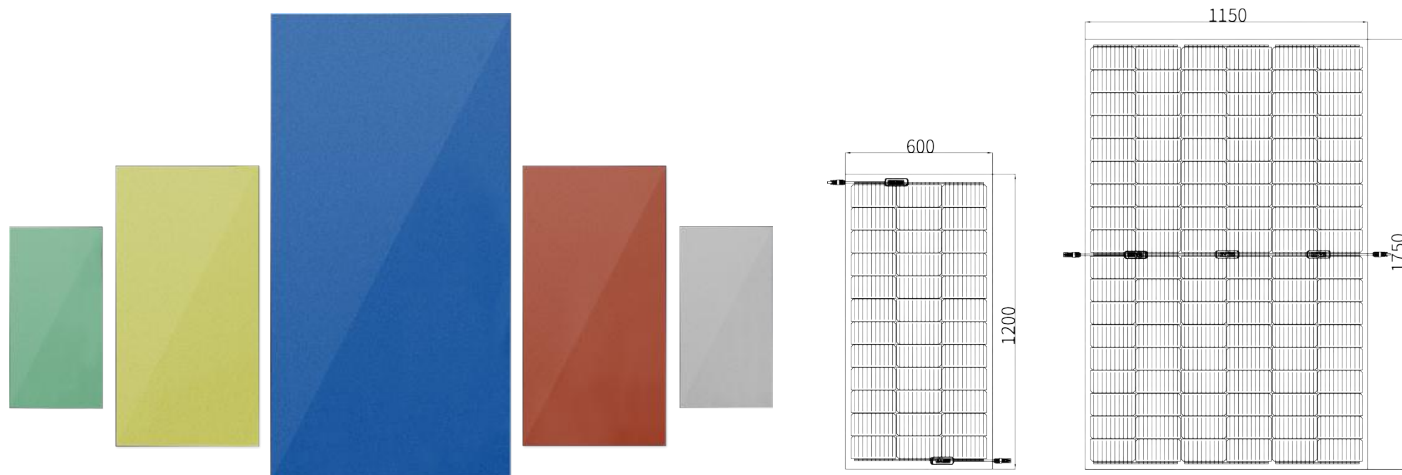
Environmentally-friendly: No noise, no radiation, no light pollution, non-toxic and harmless

85%
High transmittance



Same life Span as building

Construction encapsulant, more than 40 certifications, same life as the building, GB/T35684 waterproof test, class A fireproof, wind resistance



ELECTRICAL PARAMETERS(STC) 1200*600

Module type	JS100DG-18e 1/2	JS125DG-18e 1/2	JS120DG-18e 1/2	JS120DG-18e 1/2	JS120DG-18e 1/2	JS120DG-18e 1/2
Color (customizable)	White	Grey	Blue	Green	Red	Yellow
Power output (P_{max})	100W	125W	120W	120W	120W	120W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	13.9 %	17.4%	16.7 %	16.7 %	16.7 %	16.7 %
Voltage at Pmax (V_{mpp})	20.4V	20.7V	20.5V	20.5V	20.5V	20.5V
Current at Pmax (I_{mpp})	4.90A	6.10A	5.85A	5.85A	5.85A	5.85A
Open-circuit current (V_{oc})	24.7V	25.0V	24.8V	24.8V	24.8V	24.8V
Short-circuit current (I_{sc})	5.15A	6.41A	6.14A	6.14A	6.14A	6.14A

ELECTRICAL PARAMETERS(STC) 1750*1150

Module type	JS295DG-27e 1/2	JS380DG-27e 1/2	JS360DG-27e 1/2	JS360DG-27e 1/2	JS360DG-27e 1/2	JS360DG-27e 1/2
Color (customizable)	White	Grey	Blue	Green	Red	Yellow
Power output (P_{max})	295W	380W	360W	360W	360W	360W
Power output tolerances (ΔP_{max})	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Module efficiency (η_m)	14.7 %	18.9%	17.9 %	17.9 %	17.9 %	17.9 %
Voltage at Pmax (V_{mpp})	30.1V	31.1V	30.8V	30.8V	30.8V	30.8V
Current at Pmax (I_{mpp})	9.80A	12.2A	11.7A	11.7A	11.7A	11.7A
Open-circuit current (V_{oc})	36.4V	37.6V	37.3V	37.3V	37.3V	37.3V
Short-circuit current (I_{sc})	10.3A	12.8A	12.3A	12.3A	12.3A	12.3A

STC: 1000W/m² irradiance , 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Module type	JSxxxDG-18e 1/2 (xxx=Power)	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass / 6mm	Low-iron tempered glass / 6mm
Baseplate (material)	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box
Dimensions	1200*600mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm
Cell layout	3*12	2*6*9
Weight	24kg	67kg

138 W/m ² JSA1620	170 W/m ² JS1261	153 W/m ² JSC0555	149 W/m ² JSC1214	167 W/m ² JSA0603	71 W/m ² JSC1073	96 W/m ² JSC1684	159 W/m ² JSA1102	118 W/m ² JSC1005
140 W/m ² JSA10-110	153 W/m ² JSC1716	100 W/m ² JSC0553	100 W/m ² JSC0545	167 W/m ² JSA0605	83 W/m ² JSC1071	167 W/m ² JSA0102	147 W/m ² JSA1105	167 W/m ² JSC1004
138 W/m ² JSA10-115	100 W/m ² JSC1056	128 W/m ² JSC1271	100 W/m ² JSC0556	167 W/m ² JSA0402	157 W/m ² JSA0404	118 W/m ² JSA1908	144 W/m ² JSA1405	157 W/m ² JSC0085



Colored Glaze • Colorful (Matt)

Colored Crystalline Silicon Photovoltaic Building Materials (BIPV)

Replace traditional glass curtain wall for building facade

≥ 24 %
Efficiency



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Fastness: Durable and stable for colors for whole life

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Customization: color, size and shape can be customized

30 YEAR
Warranty 30 years



Energy-saving, clean and environmentally-friendly

Energy-saving: Reduce building energy consumption

Energy generation: Solar power generation for clean energy to support carbon neutral

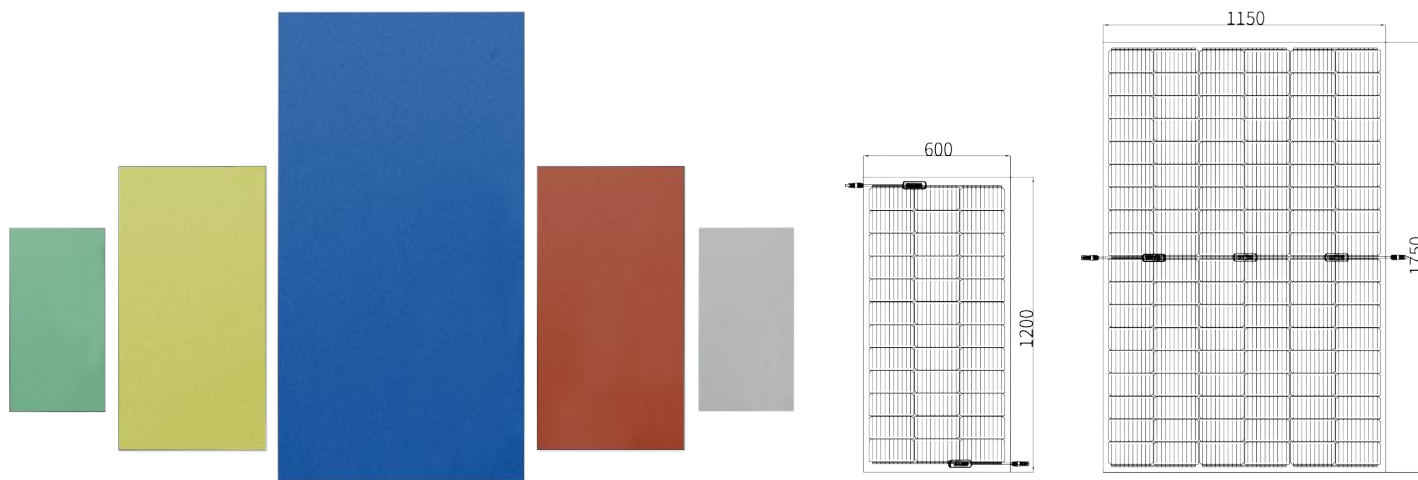
Environmentally-friendly: No noise, no radiation, no light pollution, non-toxic and harmless

85%
High transmittance



Same life Span as building

Construction encapsulant, more than 40 certifications, same life as the building, GB/T35684 waterproof test, class A fireproof, wind resistance



ELECTRICAL PARAMETERS(STC) 1200*600

Module type	JS125DG-18e 1/2	JS110DG-18e 1/2	JS110DG-18e 1/2	JS100DG-18e 1/2	JS100DG-18e 1/2
Color (customizable)	Grey	Blue	Green	Red	Yellow
Power output (P_{max})	125W	110W	110W	100W	100W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	17.4%	15.3 %	15.3 %	13.9 %	13.9 %
Voltage at Pmax (V_{mpp})	20.6V	19.4V	19.4V	19.0V	19.0V
Current at Pmax (I_{mpp})	6.07A	5.67A	5.67A	5.26A	5.26A
Open-circuit current (V_{oc})	24.9V	23.5V	23.5V	23.0V	23.0V
Short-circuit current (I_{sc})	6.37A	5.95A	5.95A	5.53A	5.53A

ELECTRICAL PARAMETERS(STC) 1750*1150

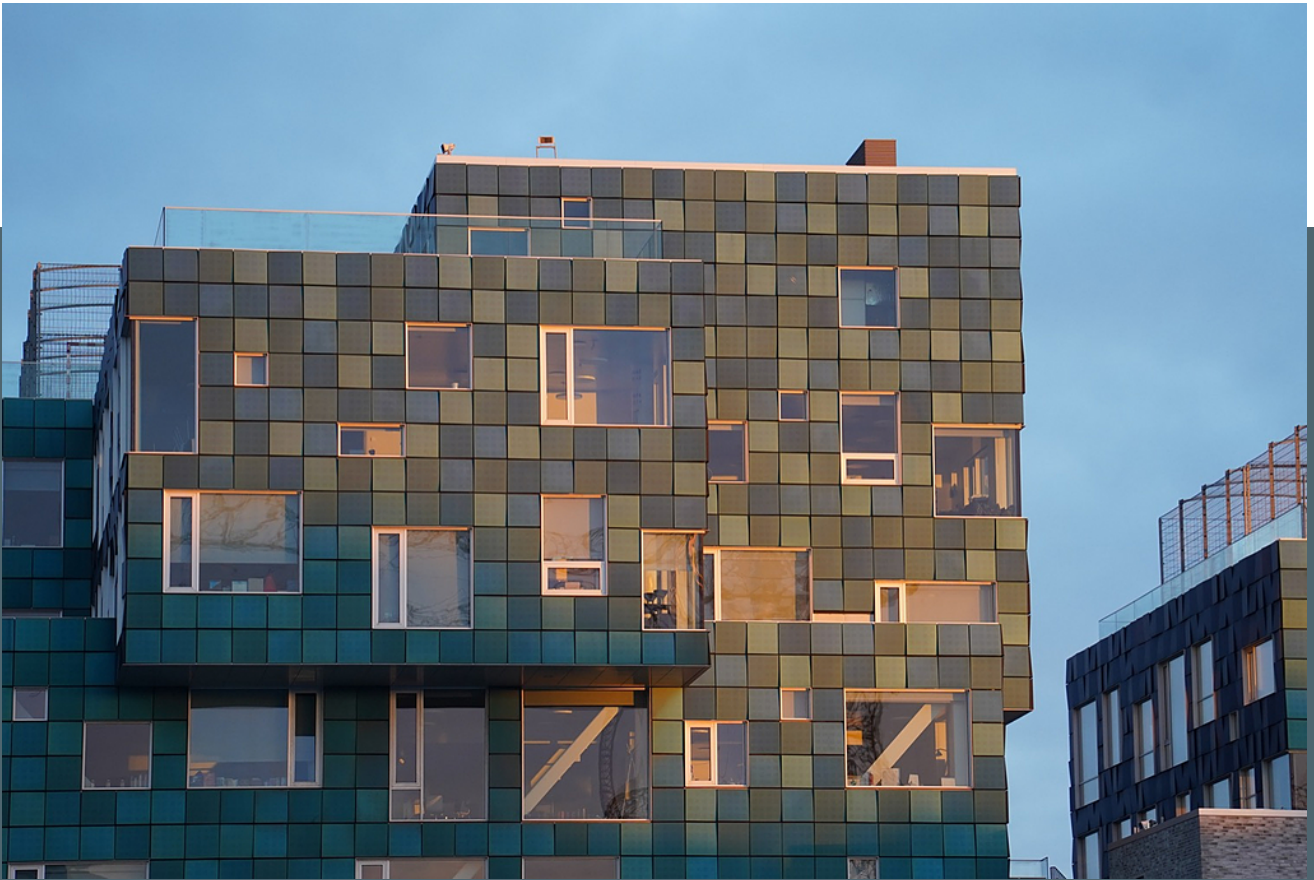
Module type	JS375DG-27e 1/2	JS325DG-27e 1/2	JS335DG-27e 1/2	JS300DG-27e 1/2	JS305DG-27e 1/2
Color (customizable)	Grey	Blue	Green	Red	Yellow
Power output (P_{max})	375W	325W	335W	300W	305W
Power output tolerances (ΔP_{max})	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Module efficiency (η_m)	18.6%	16.1 %	16.6 %	14.9 %	15.2 %
Voltage at Pmax (V_{mpp})	30.9V	29.1V	29.4V	28.5V	28.6V
Current at Pmax (I_{mpp})	12.1A	11.2A	11.4A	10.5A	10.7A
Open-circuit current (V_{oc})	37.4V	35.2V	35.6V	34.5V	34.6V
Short-circuit current (I_{sc})	12.7A	11.8A	12.0A	11.1A	11.2A

STC: 1000W/m² irradiance , 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Module type	JSxxxDG-18e 1/2 (xxx=Power)	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass / 6mm	Low-iron tempered glass / 6mm
Baseplate (material)	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box
Dimensions	1200*600mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm
Cell layout	3*12	2*6*9
Weight	24kg	67kg

108 W/m ² JSAM10-110	170 W/m ² JSAM1261	150 W/m ² JSAM04-103	108 W/m ² JSAM15-103	140 W/m ² JSAM15-203	125 W/m ² JSAM01-103	137 W/m ² JSAM1103	132 W/m ² JSAM1105
	142 W/m ² JSAM1003	142 W/m ² JSAM04-105	142 W/m ² JSAM15-105	140 W/m ² JSAM15-205	112 W/m ² JSAM01-105	136 W/m ² JSAM01-203	137 W/m ² JSAM1403
	129 W/m ² JSAM1005	151 W/m ² JSAM04-303	145 W/m ² JSAM04-305	97 W/m ² JSAM1908	114 W/m ² JSAM1903	132 W/m ² JSAM01-205	130 W/m ² JSAM1405



Artistic Solar Panel

The best quality p-type mono cells and production process

Professional technology , reliable quality and power generation guarantee

> 20%
Efficiency

25-30 YEAR
Liner Warranty

0~+5^w
Power tolerance



Higher Durability

The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken



High Power Density

High conversion efficiency and more power output per square meter. by lower series resistance and improved light harvesting



Half-cell Design

Less energy loss caused by shading due to new cell string layout and split J-box, and lower cell connection power loss due to half-cell design



Colorful Design

Colored Crystalline Silicon Photovoltaic Building Materials (BIPV), dressed building all the colors you want



Large size cell

The large cell design effectively increases module peak power and effectively reduces BOS costs, thereby reducing system costs

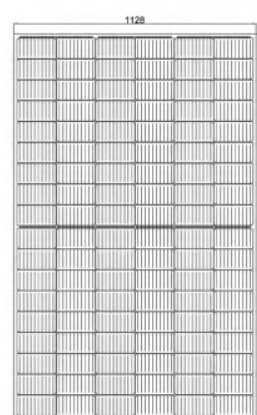
Frameless



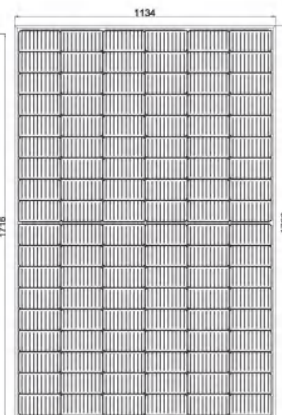
Framed



Black Grey Olive Ivory Mint green Sky blue Violet Burgundy Ochre brown



Frameless



Framed

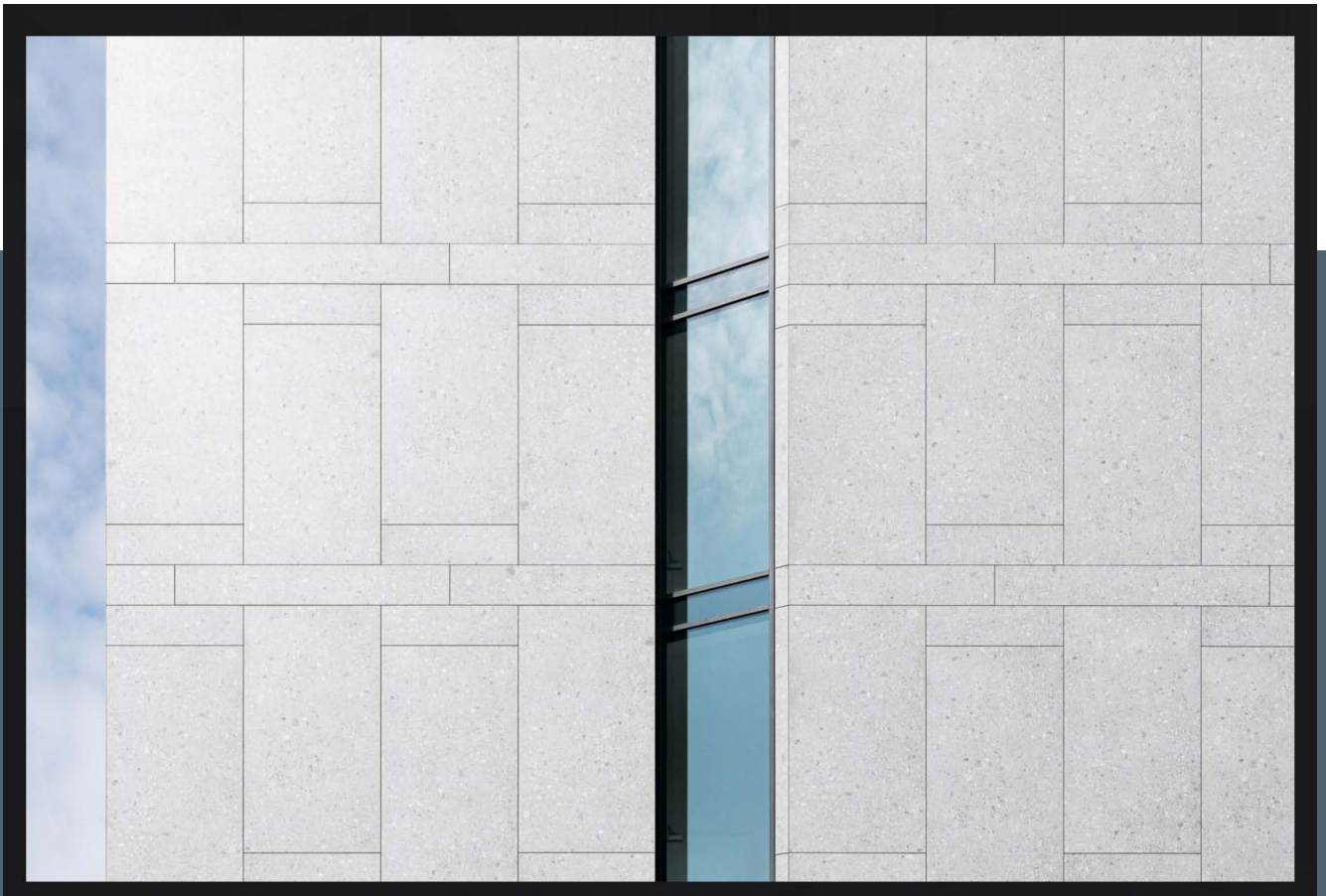
Artistic Solar Panel

ELECTRICAL PARAMETERS(STC)				
Module type	JS410DG-27e 1/2		JS400DG-27e 1/2	
Color (customizable)	■ Black	■ Sky blue	■ Olive	■ Mint green
Power output (P_{max})	410W		400W	
Power output tolerances (ΔP_{max})	+5W		+5W	
Module efficiency (η_m)	21.2%/21.0 % (framed)		20.7%/20.4% (framed)	
Voltage at Pmax (V_{mpp})	33.3V		33.1V	
Current at Pmax (I_{mpp})	12.3A		12.1A	
Open-circuit current (V_{oc})	39.6V		39.4V	
Short-circuit current (I_{sc})	12.9A		12.7A	

ELECTRICAL PARAMETERS(STC)					
Module type	JS375DG-27e 1/2		JS350DG-27e 1/2		JS345DG-27e 1/2
Color (customizable)	■ Ivory	■ Violet	■ Grey	■ Burgundy	■ Ochre brown
Power output (P_{max})	375W		350W		345W
Power output tolerances (ΔP_{max})	+5W		+5W		+5W
Module efficiency (η_m)	19.4%/19.2% (framed)		18.1%/17.9 % (framed)		17.8%/17.6% (framed)
Voltage at Pmax (V_{mpp})	32.6V		32.5V		32.3V
Current at Pmax (I_{mpp})	11.5A		10.8A		10.7A
Open-circuit current (V_{oc})	39.1V		39.1V		39.1V
Short-circuit current (I_{sc})	12.2A		11.5A		11.4A

STC: 1000W/m² irradiance , 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS	
Module type	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass
Baseplate (material)	EVA
Junction box (protection degree)	≥IP67
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67
Packing	A pallets or wooden box
Dimensions	1716*1128*6mm/1722*1134*30mm
Dimensions of cell	182*91mm
Cell layout	2-6*9
Weight	30kg (frameless) / 32kg (framed)



Colored Glaze · Crystal Clear

Crystalline Silicon Photovoltaic Building Materials (BIPV)

Replace traditional glass curtain wall for building facade



Light transmittance customized

Excellent light transmission performance

Customization: Size and shape can be customized

High-efficiency: Highest efficiency cells ,more power generation



Energy-saving, clean and environmentally-friendly

Energy-saving: Reduce building energy consumption

Energy generation: Solar power generation for clean energy to support carbon neutral

Environmentally-friendly: No noise, no radiation, no light pollution, non-toxic and harmless



Same life span as building

Construction encapsulant, more than 40 certifications, same life as the building.

GB/T35684 waterproof test, class A fireproof, wind resistance

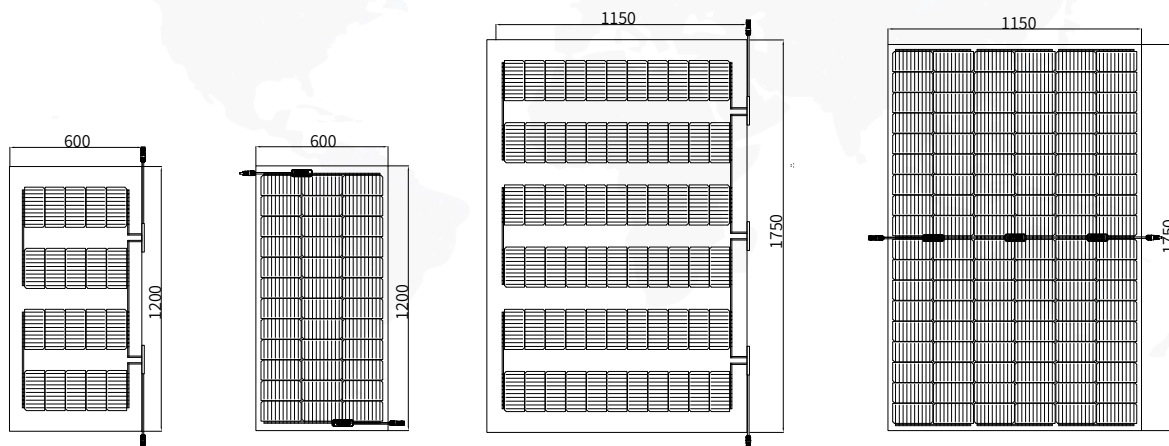
High quality: high strength, corrosion resistance, high temperature and humidity resistance



Colored Glaze · Crystal Clear

DIMENSIONS

Unit : mm



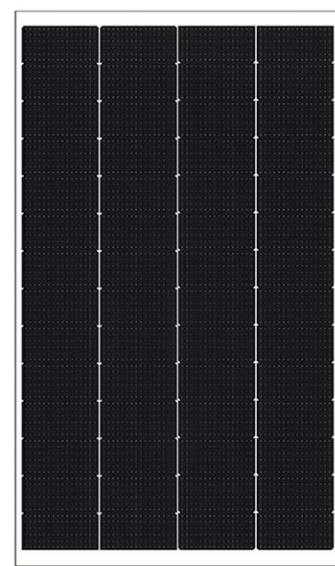
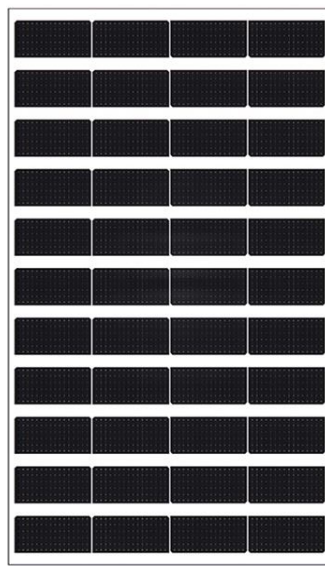
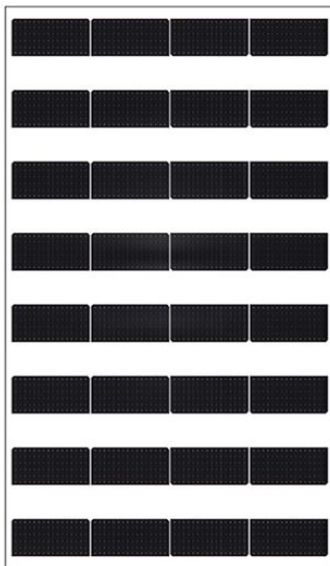
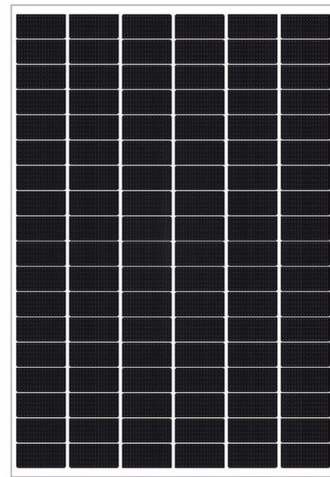
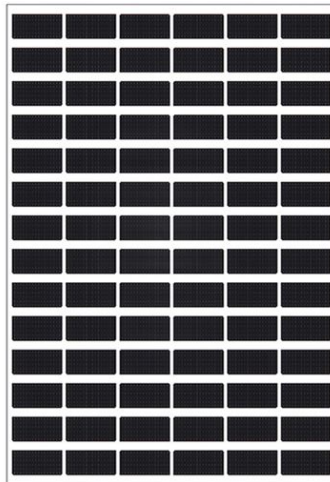
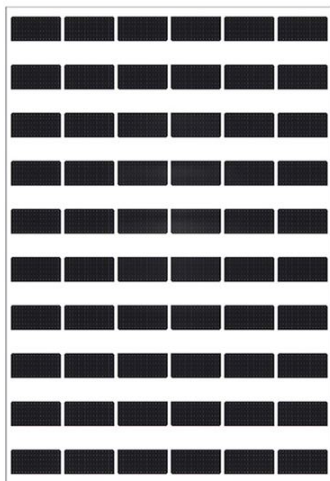
ELECTRICAL PARAMETERS(STC)

Module type	JS73DG-10e 1/2	JS125DG-18e 1/2	JS230DG-33e 1/2	JS380DG-27e 1/2
Power output (P_{max})	73W	125W	230W	380W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	10.1%	17.4%	11.4%	18.9%
Voltage at P_{max} (V_{mpp})	11.6V	20.9V	38.4V	31.4V
Current at P_{max} (I_{mpp})	6.29A	5.98A	5.99A	12.1A
Open-circuit current (V_{oc})	14.1V	25.3V	46.5V	38.0V
Short-circuit current (I_{sc})	6.61A	6.28A	6.29A	12.7A

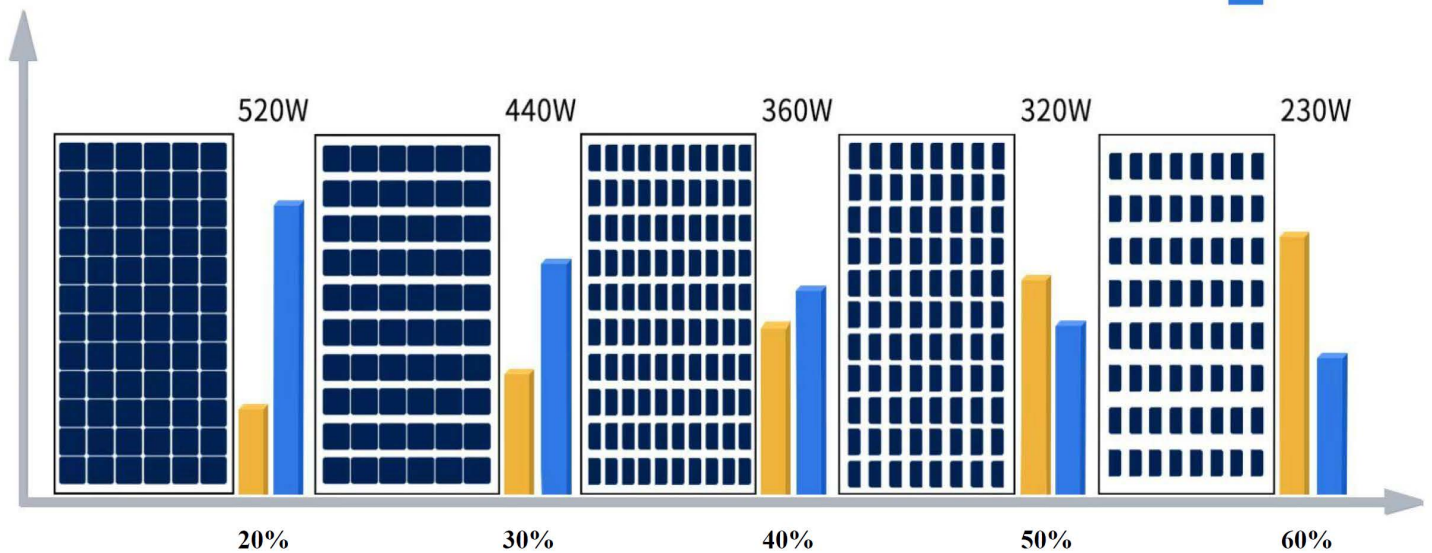
STC: 1000W/m² irradiance , 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Product type	JS73DG-10e 1/2	JS125DG-18e 1/2	JS230DG-33e 1/2	JS380DG-27e 1/2
Glass (material / thickness)	6mm+6mm (3.2mm Optional)	6mm+6mm (3.2mm Optional)	6mm+6mm (3.2mm Optional)	6mm+6mm (3.2mm Optional)
Baseplate (material)	PVB	PVB	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box	A pallets or wooden box	A pallets or wooden box
Dimensions (L / W / TH)	1200*600mm	1200*600mm	1750*1150mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm	182*91mm	182*91mm
Cell layout	4*5 (50%)	3*12 ($\approx 10\%$)	6*11 (50%)	2-6*9 ($\approx 10\%$)
Weight	24kg	24kg	67kg	67kg



■ Transparency
■ Power





Colored Glaze·Solar Fence

Crystalline Silicon Photovoltaic Building Materials (BIPV)

Ultra-narrow frame design, unobstructed sight

Hot-spots resistance , can be used to skylight, facade, balcony fences, etc.



Architectural aesthetics

Excellent light transmission performance: Large spacing, ultra-fine cells

Beauty: Sliced cell use can form different patterns by adjusting the spacing between cells and the width of cells to beautify the building

Customization: Size, shape and transmittance can be customized



Energy-saving, clean and environmentally-friendly

Energy-saving: Reduce building energy consumption

Energy generation: Solar power generation for clean energy to support carbon neutral

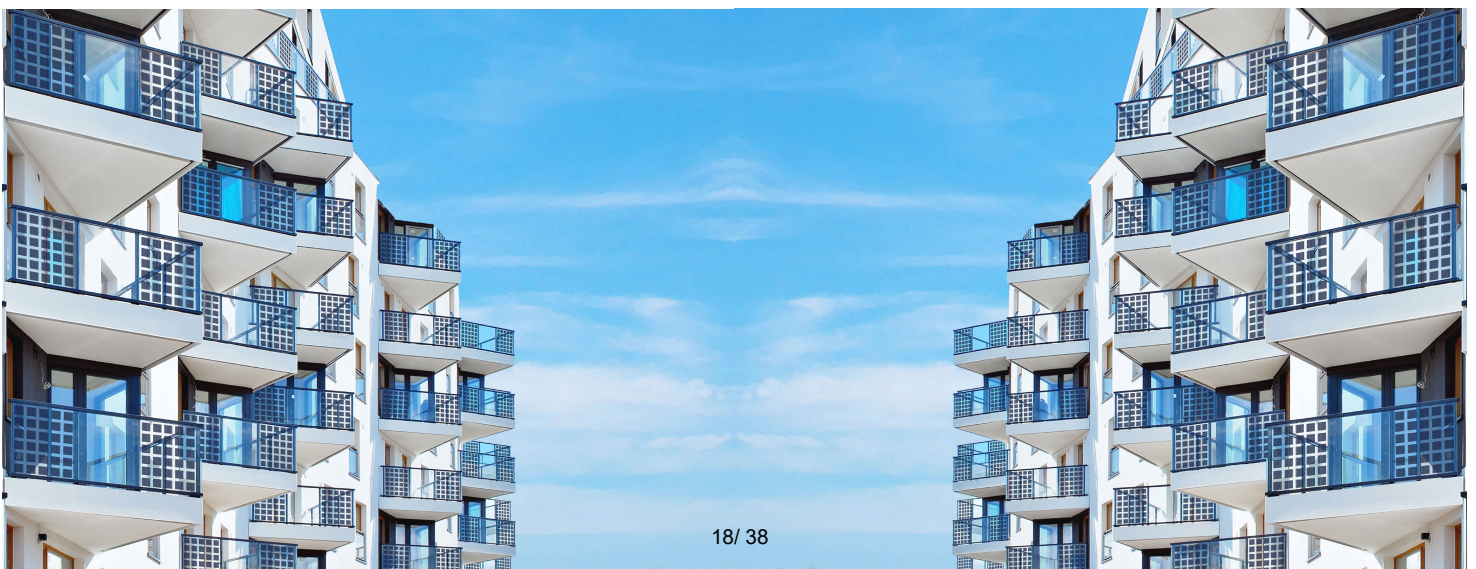
Environmentally-friendly: No noise, no radiation, no light pollution, non-toxic and harmless



Same life Span as building

Physical performance: Construction encapsulant, more than 40 certifications, same life as the building

GB/T35684 waterproof test, class A fireproof, wind resistance



Colored Glaze · Solar Fence

ELECTRICAL PARAMETERS(STC)

Product type	JS82DG-72b 1/9	JS165DG-150b 1/9
Power output (P_{max})	82W	165W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$
Voltage at Pmax (V_{mpp})	78.8V	163.4V
Current at Pmax (I_{mpp})	1.04A	1.01A
Open-circuit current (V_{oc})	95.3V	197.7V
Short-circuit current (I_{sc})	1.09A	1.06A

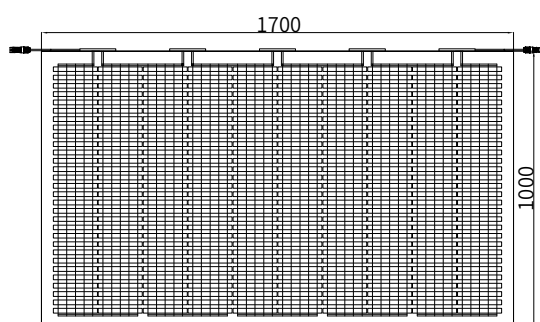
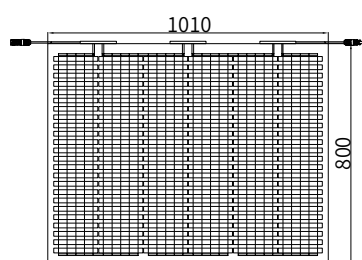
STC: 1000W/m² irradiance, 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

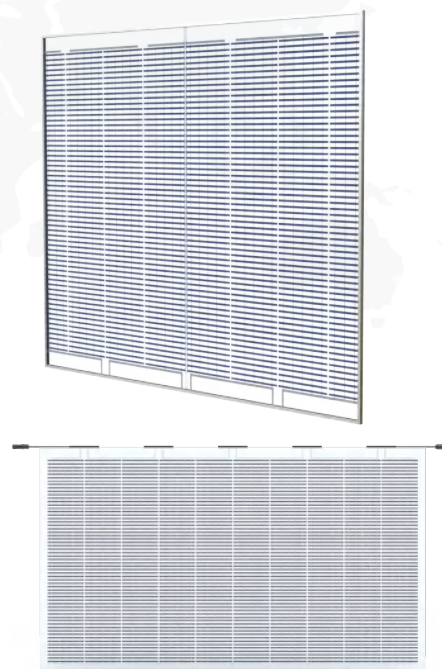
Product type	JS82DG-72b 1/9	JS165DG-150b 1/9
Dimensions	1010*800mm	1700*1000mm
Glass structure	6mm+6mm	6mm+6mm
Cell layout	6*24	10*30
Weight	27kg	57kg
Transmittance	52%	52%

DIMENSIONS

Unit : mm

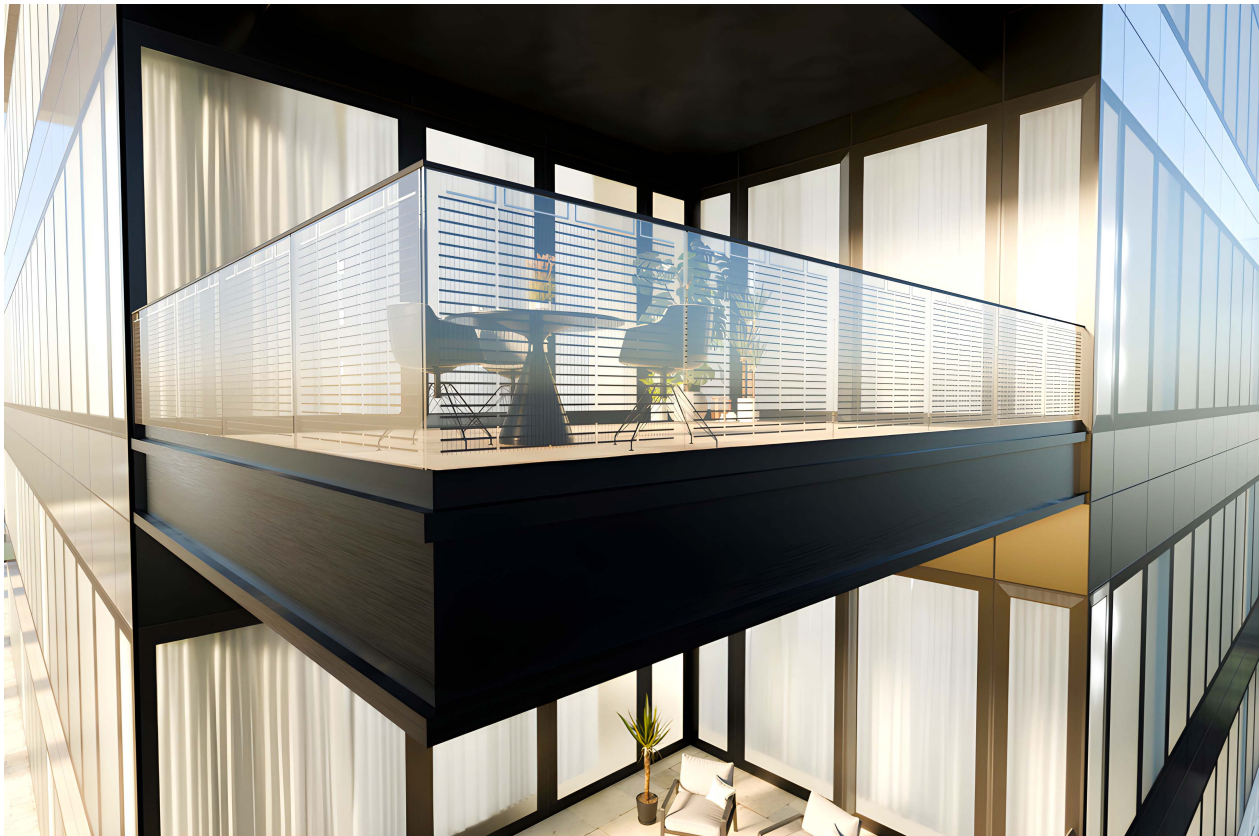


PRODUCT DISPLAY



CASE STUDY





Black Brick · Marble

Marble texture (BIPV)

Mild color , rich texture and clear in stripes, Show the building cultural and historical



Rich Textures

Rich colors and unique texture design, also with excellent decorative performance of the facade



Sturdy & Durable

0% water absorption compared with the traditional stone , longer lifetime



Safe & Reliable

Construction encapsulant, more than 40 certifications, same life as the building
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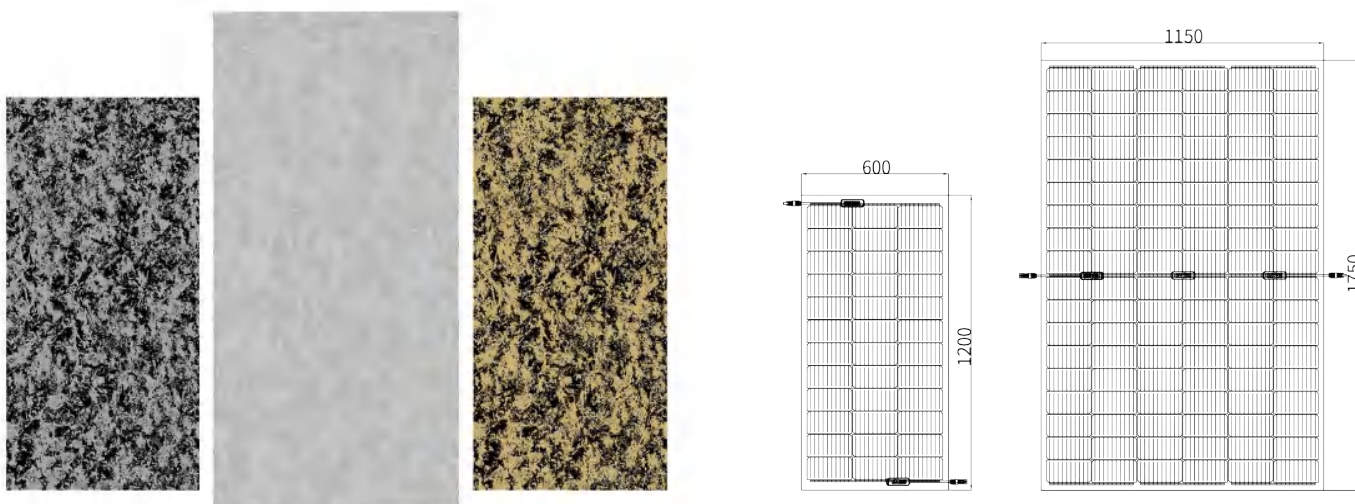
Stable Performance

High-efficiency crystalline silicon, efficiency can reach 11%-17%



Easy Installation

Mechanical installation, hidden behind junction box more beauty, safety and durability
Metal pendant connected structure easy to installation with lower labor cost



ELECTRICAL PARAMETERS(STC) 1200*600

Module type	JS105DG-18e 1/2	JS120DG-18e 1/2	JS85DG-18e 1/2
Color (customizable)	 JSMar-B1(a1105)	 JSMar-B1(a10-104)	 JSMar-B2(a10-110)
Power output (P_{max})	105W	120W	85W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	14.6%	16.7 %	11.8 %
Voltage at Pmax (V_{mpp})	19.1V	20.5V	18.7V
Current at Pmax (I_{mpp})	5.50A	5.85A	4.55A
Open-circuit current (V_{oc})	23.1V	24.8V	22.6V
Short-circuit current (I_{sc})	5.77A	6.14A	4.78A

ELECTRICAL PARAMETERS(STC) 1750*1150

Module type	JS315DG-27e 1/2	JS355DG-27e 1/2	JS255DG-27e 1/2
Color (customizable)	 JSMar-B1(a1105)	 JSMar-B1(a10-104)	 JSMar-B2(a10-110)
Power output (P_{max})	315W	355W	255W
Power output tolerances (ΔP_{max})	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Module efficiency (η_m)	15.6%	17.6%	12.7%
Voltage at Pmax (V_{mpp})	28.8V	30.7V	28.4V
Current at Pmax (I_{mpp})	10.9A	11.6A	8.98A
Open-circuit current (V_{oc})	34.8V	37.1V	34.4V
Short-circuit current (I_{sc})	11.4A	12.2A	9.52A

STC: 1000W/m² irradiance , 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Module type	JSxxxDG-18e 1/2 (xxx=Power)	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass / 6mm	Low-iron tempered glass / 6mm
Baseplate (material)	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box
Dimensions	1200*600mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm
Cell layout	3*12	2-6*9
Weight	24kg	67kg



Black Brick · Masonry

Masonry texture (BIPV)

Replace traditional stone for building facade



Beauty

Mild color , rich texture and clear in stripes, Show the building cultural and historical



Environmental Friendly

Low carbon and environmental protection production process, New environmentally friendly building materials



Safety

Construction encapsulant, more than 40 certification, same life as the building
GB/T35684 waterproof test, class A fireproof, wind resistance



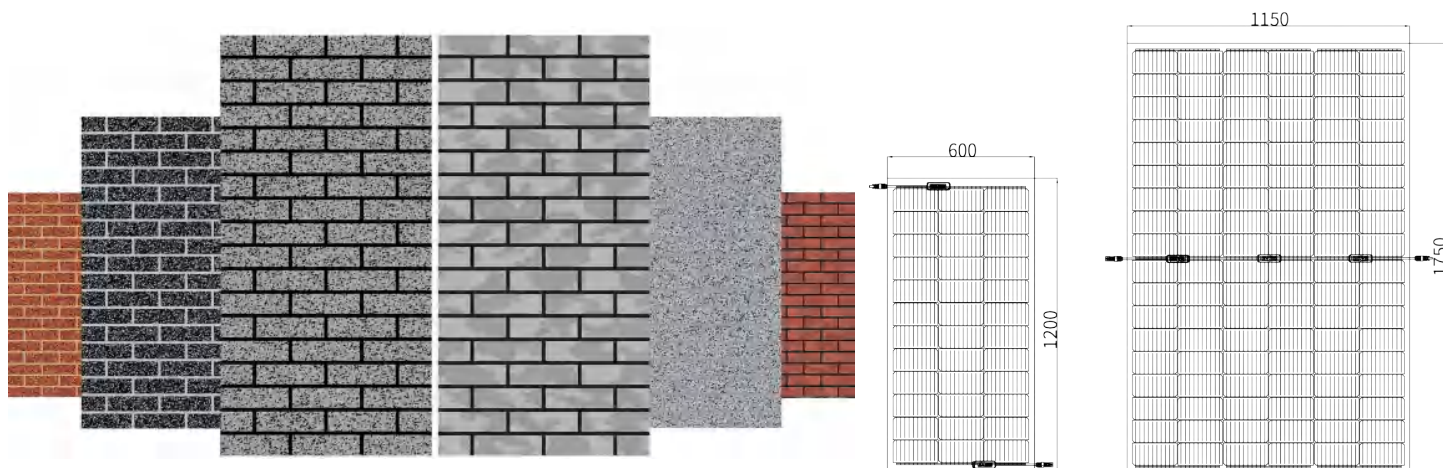
Stable Performance

High-efficiency crystalline silicon, efficiency can reach 15%-17%



Easy Installation

Mechanical installation, hidden behind junction box more beauty, safety and durability
Metal pendant connected structure easy to installation with lower labor cost



ELECTRICAL PARAMETERS(STC) 1200*600

Module type	JS105DG-18e 1/2	JS105DG-18e 1/2	JS95DG-18e 1/2	JS95DG-18e 1/2	JS100DG-18e 1/2	JS90DG-18e 1/2
Color (customizable)	 JSMas-B1 (B1a10-104/B3a10-110)	 JSMas-B2 (B2a10-104/B1a10-110)	 JSMas-B3 (B3a10-104/B2a10-110)	 JSMas-B3 (B3a1105/B2a1905)	 JSMas-B4 (a10-110)	 JSMas-B4 (a1908)
Power output (P_{max})	105W	105W	95W	95W	100W	90W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	14.6%	14.6%	13.2%	13.2%	13.9%	12.5%
Voltage at Pmax (V_{mpp})	19.1V	19.1V	18.9V	18.9V	19.0V	18.8V
Current at Pmax (I_{mpp})	5.50A	5.50A	5.03A	5.03A	5.26A	4.79A
Open-circuit current (V_{oc})	23.1V	23.1V	22.9V	22.9V	23.0V	22.8V
Short-circuit current (I_{sc})	5.77A	5.77A	5.28A	5.28A	5.53A	5.03A

ELECTRICAL PARAMETERS(STC) 1150*1750

Module type	JS310DG-27e 1/2	JS315DG-27e 1/2	JS285DG-27e 1/2	JS285DG-27e 1/2	JS295DG-27e 1/2	JS270DG-27e 1/2
Color (customizable)	 JSMas-B1 (B1a10-104/B3a10-110)	 JSMas-B2 (B2a10-104/B1a10-110)	 JSMas-B3 (B3a10-104/B2a10-110)	 JSMas-B3 (B3a1105/B2a1905)	 JSMas-B4 (a10-110)	 JSMas-B4 (a1908)
Power output (P_{max})	310W	315W	285W	285W	295W	270W
Power output tolerances (ΔP_{max})	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Module efficiency (η_m)	15.4%	15.7 %	14.2 %	14.2 %	14.7 %	13.4 %
Voltage at Pmax (V_{mpp})	28.7V	28.8V	28.2V	28.2V	28.4V	27.9V
Current at Pmax (I_{mpp})	10.8A	10.9A	10.1A	10.1A	10.4A	9.68A
Open-circuit current (V_{oc})	34.7V	34.8V	34.1V	34.1V	34.4V	33.8V
Short-circuit current (I_{sc})	11.3A	11.4A	10.6A	10.6A	10.9A	10.2A

STC: 1000W/m² irradiance , 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Module type	JSxxxDG-18e 1/2 (xxx=Power)	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass / 6mm	Low-iron tempered glass / 6mm
Baseplate (material)	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box
Dimensions	1200*600mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm
Cell layout	3*12	2-6*9
Weight	24kg	67kg



Black Brick · Granite

Granite texture (BIPV)

Advanced Exterior Wall Finishing Materials, Replace traditional stone material, The utility model has the advantages of high mechanical performance, long service life, various colors and patterns, etc.



Beauty

Bright colors, digital technology can realize various imitation stone texture patterns, size and shape can be customized



Durable

Acid and alkali resistance, corrosion resistance, strong pressure resistance, low water absorption, satisfy architectural aesthetics



Safety

Construction encapsulant, more than 40 certification, same life as the building
GB/T35684 waterproof test, class A fireproof, wind resistance



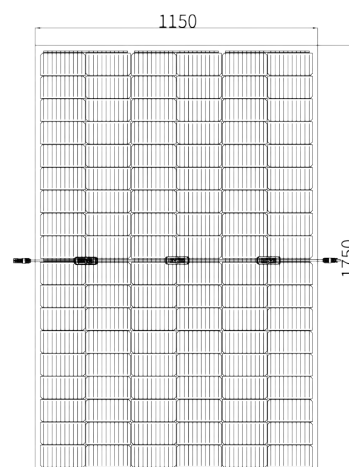
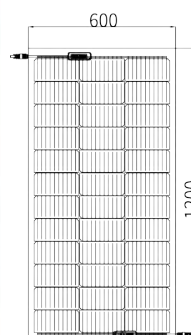
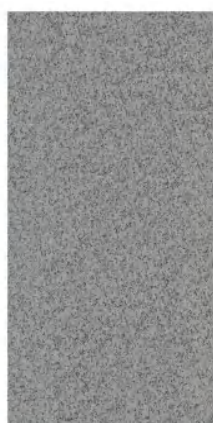
Stable Performance

Exclusive optical nano-coating technology, High-efficiency crystalline silicon, efficiency can reach 17%



Easier to installation

Mechanical installation, hidden behind junction box more beauty, safety and durability
Metal pendant connected structure easy to installation with lower labor cost



ELECTRICAL PARAMETERS(STC) 1200*600

Module type	JS105DG-18e 1/2	JS105DG-18e 1/2	JS105DG-18e 1/2	JS115DG-18e 1/2
Color (customizable)	 JSGra-B1(a10-110)	 JSGra-B1(a1105)	 JSGra-B2(a10-110)	 JSGra-B2(a1105)
Power output (P_{max})	105W	105W	105W	115W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	14.6%	14.6%	14.6%	16.0%
Voltage at Pmax (V_{mpp})	19.1V	19.1V	19.1V	19.8V
Current at Pmax (I_{mpp})	5.50A	5.50A	5.50A	5.81A
Open-circuit current (V_{oc})	23.1V	23.1V	23.1V	24.0V
Short-circuit current (I_{sc})	5.77A	5.77A	5.77A	6.10A

ELECTRICAL PARAMETERS(STC) 1750*1150

Module type	JS305DG-27e 1/2	JS310DG-27e 1/2	JS310DG-27e 1/2	JS345DG-27e 1/2
Color (customizable)	 JSGra-B1(a10-110)	 JSGra-B1(a1105)	 JSGra-B2(a10-110)	 JSGra-B2(a1105)
Power output (P_{max})	305W	310W	310W	345W
Power output tolerances (ΔP_{max})	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Module efficiency (η_m)	15.2%	15.4%	15.4%	17.1%
Voltage at Pmax (V_{mpp})	28.6V	28.7V	28.7V	29.7V
Current at Pmax (I_{mpp})	10.7A	10.8A	10.8A	11.6A
Open-circuit current (V_{oc})	34.6V	34.7V	34.7V	35.9V
Short-circuit current (I_{sc})	11.2A	11.3A	11.3A	12.2A

STC: 1000W/m² irradiance, 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Module type	JSxxxDG-18e 1/2 (xxx=Power)	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass / 6mm	Low-iron tempered glass / 6mm
Baseplate (material)	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box
Dimensions	1200*600mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm
Cell layout	3*12	2-6*9
Weight	24kg	67kg



Black Brick • Artistical

Artistical texture (BIPV)

Hard and durable texture, colorful colors, perfect decorative effect, meet the personalized design



Innovative Vision

Rich visual effects, Strong visual impact and New visual experience



Artistic Designing

Artistic energy-saving building change the life for all



Stable Performance

Artistical design with the efficiency up to 17.4%, Innovative fusion of art and technology



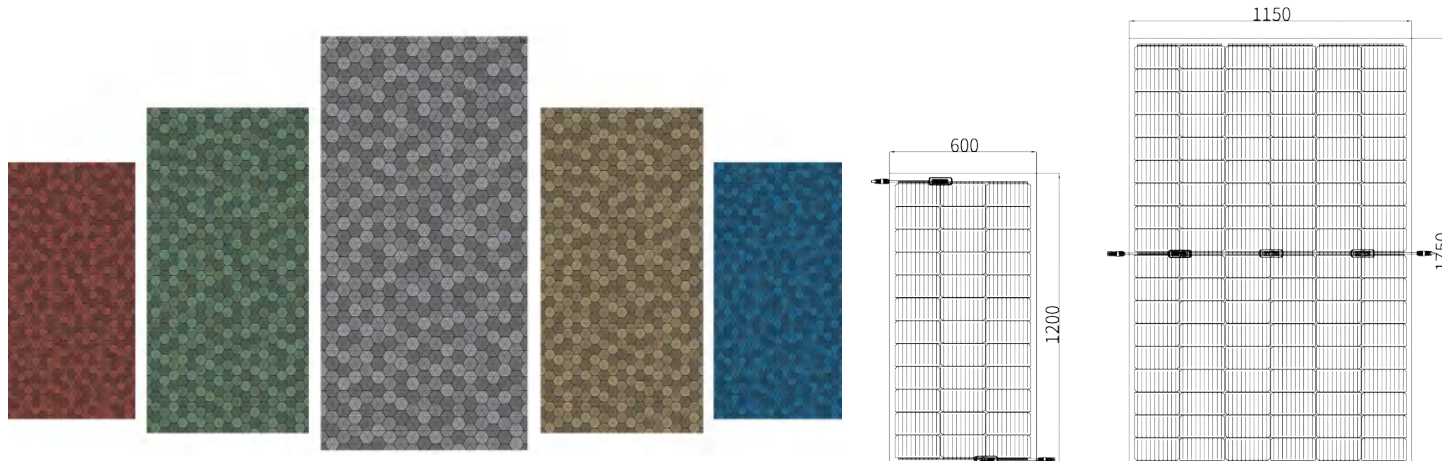
Safety

Construction encapsulant, more than 40 certifications, same life as the building
GB/T35684 waterproof test, class A fireproof, wind resistance



Flexible Design

Join us, Explore more possibilities of design



ELECTRICAL PARAMETERS(STC) 1200*600

Module type	JS90DG-18e 1/2	JS120DG-18e 1/2	JS110DG-18e 1/2	JS110DG-18e 1/2	JS110DG-18e 1/2
Color (customizable)	 JSArt-B1(a1908)	 JSArt-B1(a1105)	 JSArt-B1(a0605)	 JSArt-B1(a0402)	 JSArt-B1(a10-110)
Power output (P_{max})	90W	120W	110W	110W	110W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	12.5%	16.7%	15.3%	15.3%	15.3%
Voltage at Pmax (V_{mpp})	18.8V	20.5V	19.4V	19.4V	19.4V
Current at Pmax (I_{mpp})	4.79A	5.85A	5.67A	5.67A	5.67A
Open-circuit current (V_{oc})	22.8V	24.8V	23.5V	23.5V	23.5V
Short-circuit current (I_{sc})	5.03A	6.14A	5.95A	5.95A	5.95A

ELECTRICAL PARAMETERS(STC) 1750*1150

Module type	JS270DG-27e 1/2	JS350DG-27e 1/2	JS325DG-27e 1/2	JS325DG-27e 1/2	JS330DG-27e 1/2
Color (customizable)	 JSArt-B1(a1908)	 JSArt-B1(a1105)	 JSArt-B1(a0605)	 JSArt-B1(a0402)	 JSArt-B1(a10-110)
Power output (P_{max})	270W	350W	325W	325W	330W
Power output tolerances (ΔP_{max})	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Module efficiency (η_m)	13.4%	17.4%	16.1%	16.1%	16.4%
Voltage at Pmax (V_{mpp})	27.9V	30.5V	29.1V	29.1V	29.2V
Current at Pmax (I_{mpp})	9.68A	11.5A	11.2A	11.2A	11.3A
Open-circuit current (V_{oc})	33.8V	36.9V	35.2V	35.2V	35.3V
Short-circuit current (I_{sc})	10.2A	12.1A	11.8A	11.8A	11.9A

STC: 1000W/m² irradiance, 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Module type	JSxxxDG-18e 1/2 (xxx=Power)	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass / 6mm	Low-iron tempered glass / 6mm
Baseplate (material)	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box
Dimensions	1200*600mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm
Cell layout	3*12	2*6*9
Weight	24kg	67kg



Black Brick · Intersolar

Imitation marble texture crystalline silicon photovoltaic building material (BIPV)

Explore more possibilities of design, provide the the sustainable building solution



Natural Color

Slate texture & Wood grain : Matte ,colorful, natural and durability, Perfectly match the architectural style



Crack Resistance & Waterproofing

0% water absorption compared with the traditional stone , longer lifetime



Safe & Reliable

Construction encapsulant, more than 40 certifications, same life as the building
GB/T35684 waterproof test, class A fireproof, wind resistance



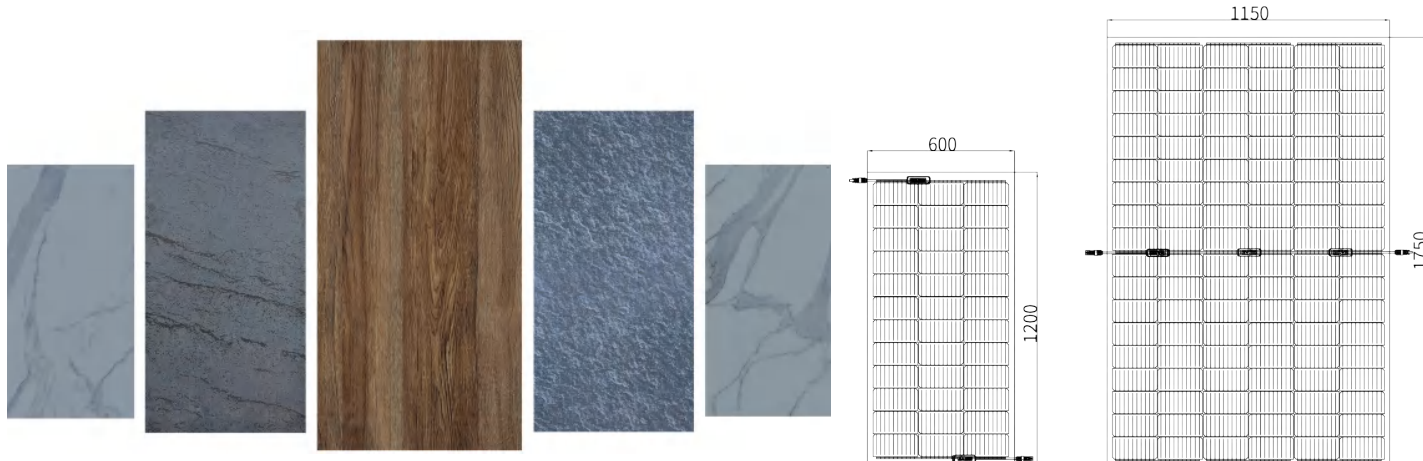
Stable Performance

High-High-efficiency crystalline silicon, efficiency can reach 11%-17%



Easy Installation

Mechanical installation, hidden behind junction box more beauty, safety and durability
Metal pendant connected structure easy to installation with lower labor cost



ELECTRICAL PARAMETERS(STC) 1200*600

Module type	JS115DG-18e 1/2	JS90DG-18e 1/2	JS95DG-18e 1/2	JS65DG-18e 1/2
Color (customizable)	 JSGra-Cas5-1	 JSWoo-Oak1	 JSSla-Sha1	 JSSla-Profound
Power output (P_{max})	115W	90W	95W	65W
Power output tolerances (ΔP_{max})	$\pm 5W$	$\pm 5W$	$\pm 5W$	$\pm 5W$
Module efficiency (η_m)	16.0%	12.5%	13.2%	9.03%
Voltage at Pmax (V_{mpp})	19.8V	18.8V	18.9V	18.3V
Current at Pmax (I_{mpp})	5.81A	4.79A	5.03A	3.51A
Open-circuit current (V_{oc})	24.0V	22.8V	22.9V	22.1V
Short-circuit current (I_{sc})	6.1A	5.03A	5.28A	3.69A

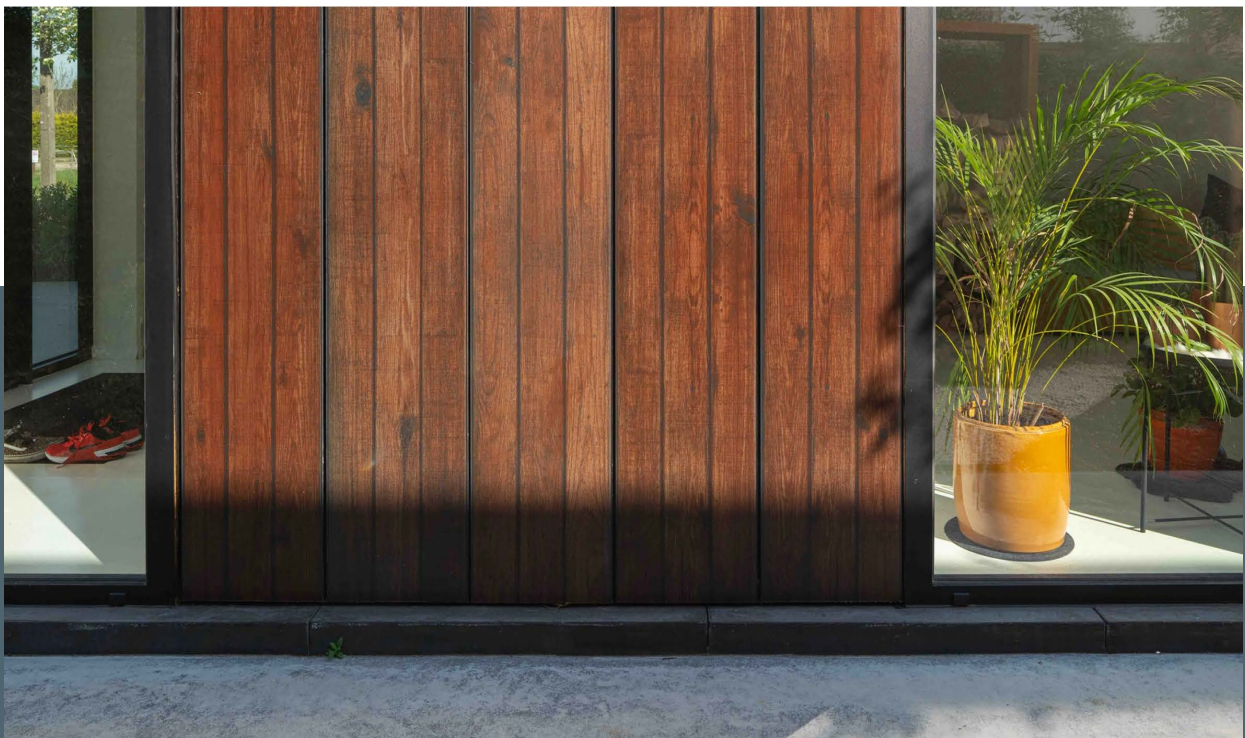
ELECTRICAL PARAMETERS(STC) 1750*1150

Module type	JS350DG-27e 1/2	JS275DG-27e 1/2	JS285DG-27e 1/2	JS190DG-27e 1/2
Color (customizable)	 JSGra-Cas5-1	 JSWoo-Oak1	 JSSla-Sha1	 JSSla-Profound
Power output (P_{max})	350W	275W	285W	190W
Power output tolerances (ΔP_{max})	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Module efficiency (η_m)	17.4%	13.7%	14.2 %	9.44%
Voltage at Pmax (V_{mpp})	30.5V	28.0V	28.2V	24.3V
Current at Pmax (I_{mpp})	11.5A	9.82A	10.1A	7.82A
Open-circuit current (V_{oc})	36.9V	33.4V	34.1V	29.6V
Short-circuit current (I_{sc})	12.1A	10.3A	10.6A	8.29A

STC: 1000W/m² irradiance , 25 degree cell temperature, AM1.5g.

CONSTRUCTION MATERIALS

Module type	JSxxxDG-18e 1/2 (xxx=Power)	JSxxxDG-27e 1/2 (xxx=Power)
Glass (material / thickness)	Low-iron tempered glass / 6mm	Low-iron tempered glass / 6mm
Baseplate (material)	PVB	PVB
Junction box (protection degree)	$\geq IP67$	$\geq IP67$
Cable (length / cross-sectional area)	300mm / 4mm ² / Customizable	300mm / 4mm ² / Customizable
Plug connector (type / protection degree)	MC4 / IP67	MC4 / IP67
Packing	A pallets or wooden box	A pallets or wooden box
Dimensions	1200*600mm	1750*1150mm
Dimensions of cell	182*91mm	182*91mm
Cell layout	3*12	2-6*9
Weight	24kg	67kg



ARCHITECTURAL COLOR CARD

	170 W/m² GRAPHITE CODE: JS1261 CBCC: 1261 RAL: 9017	149 W/m² TIDE BLUE CODE: JSC1214 CBCC: 1214 RAL: 5001	71 W/m² SMOKY RED CODE: JSC1073 CBCC: 1073 RAL: 8015	118 W/m² BROWN YELLOW CODE: JSC1005 CBCC: 1005 RAL: 8000
	153 W/m² ADDI GREY CODE: JSC1716 CBCC: 1716 RAL: 6007	100 W/m² BUTTERFLY BLUE CODE: JSC0545 CBCC: 0545 RAL: 5023	83 W/m² CYANOSIS RED CODE: JSC1071 CBCC: 1071 RAL: 8002	167 W/m² CAMEL YELLOW CODE: JSC1004 CBCC: 1004 RAL: 7008
	100 W/m² FSN GREY CODE: JSC1056 CBCC: 1056 RAL: 5011	100 W/m² CLEAR BLUE CODE: JSC0556 CBCC: 0556 RAL: 5014	96 W/m² GOOSE RED CODE: JSC1684 CBCC: 1684 RAL: 8004	157 W/m² WHEAT YELLOW CODE: JSC0085 CBCC: 0085 RAL: 7002
138 W/m² MOON WHITE CODE: JSA1620 CBCC: 1341 RAL: 7047	153 W/m² STEEL GREY CODE: JSC0555 CBCC: 0555 RAL: 7031	167 W/m² COBALT BLUE CODE: JSA0603 CBCC: 1216 RAL: 5017	167 W/m² JUJUBE RED CODE: JSA0102 CBCC: 1084 RAL: 3011	159 W/m² OAK YELLOW CODE: JSA1102 CBCC: 1124 RAL: 1027
140 W/m² ICE GREY CODE: JSA10-110 CBCC: 1373 RAL: 7035	100 W/m² CYAN GREY CODE: JSC0553 CBCC: 0553 RAL: 7000	167 W/m² SPRING BLUE CODE: JSA0605 CBCC: 1212 RAL: 5015	118 W/m² BRICK RED CODE: JSA1908 CBCC: 1095 RAL: 3016	147 W/m² APRICOT YELLOW CODE: JSA1105 CBCC: 0046 RAL: 1000
138 W/m² STONE GREY CODE: JSA10-115 CBCC: 1273 RAL: 7038	128 W/m² STAR GREY CODE: JSC1271 CBCC: 1271 RAL: 7001	167 W/m² CYPRESS GREEN CODE: JSA0402 CBCC: 0724 RAL: 6001	157 W/m² SEEDLING GREEN CODE: JSA0404 CBCC: 0725 RAL: 6018	144 W/m² PEACH YELLOW CODE: JSA1405 CBCC: 0992 RAL: 1001

Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed. The data do not refer to a single module and they are not part of the offer, they only serve for comparison to different module types.

QUALIFICATIONS AND CERTIFICATIONS

IEC 61215, IEC 61730, 3C, ISO 9001:2015,
ISO 14001:2015, ISO 45001: 2018.

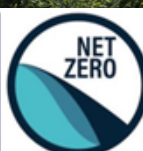
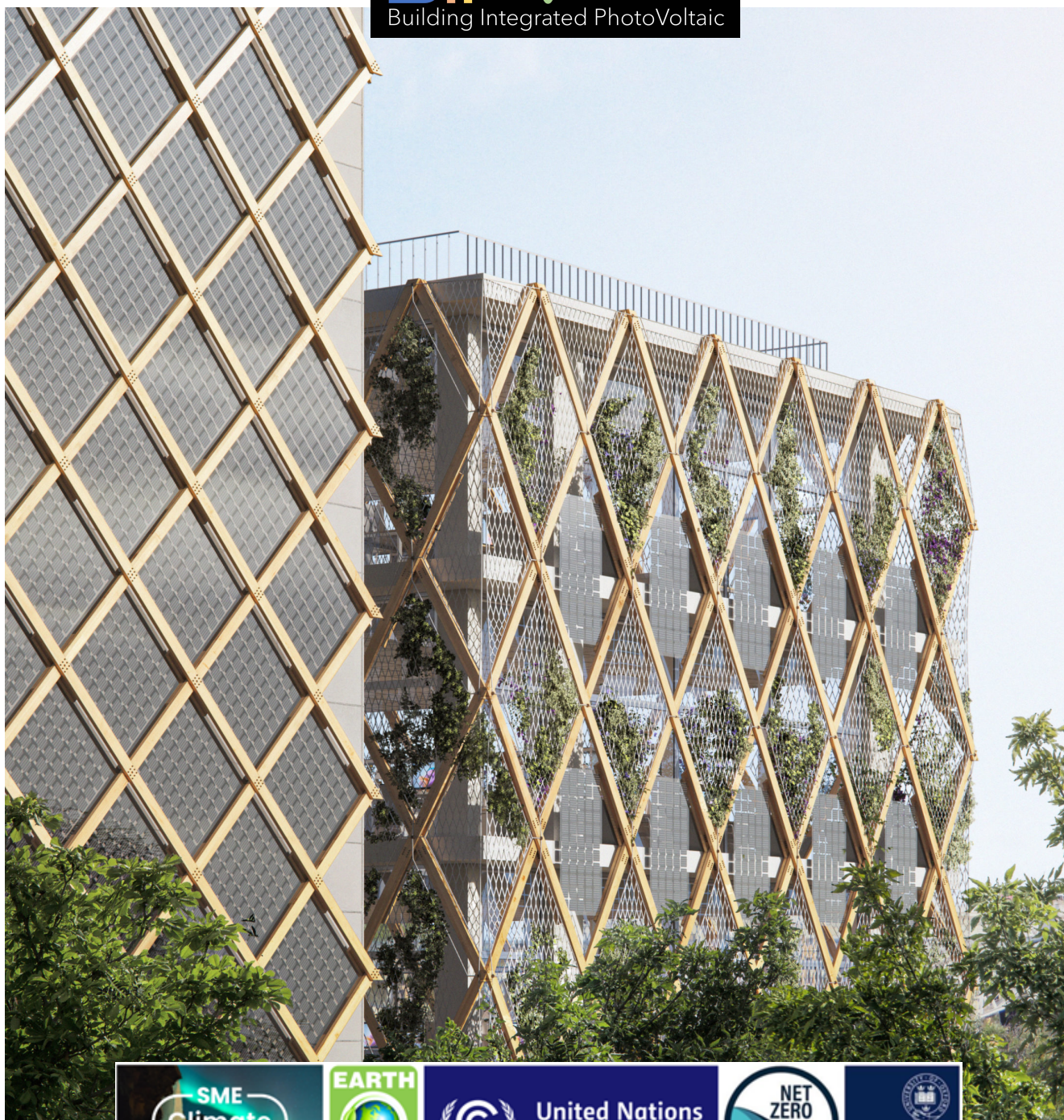
ARCHITECTURAL / COLOR CARD (MATT)

	151 W/m² PINE GREEN CODE: JSAM04-303 CBCC: 0735 RAL: 6010	108 W/m² GROUP BLUE CODE: JSAM15-103 CBCC: 1216 RAL: 5017	132 W/m² TEA RED CODE: JSAM01-205 CBCC: 1071 RAL: 8004	136 W/m² YI RED CODE: JSAM01-203 CBCC: 1073 RAL: 3009
	145 W/m² MOSS GREEN CODE: JSAM04-305 CBCC: 0733 RAL: 6017	142 W/m² WIND BLUE CODE: JSAM15-105 CBCC: 1212 RAL: 5015	125 W/m² SANDALWOOD RED CODE: JSAM01-103 CBCC: 1074 RAL: 3004	137 W/m² DAN YELLOW CODE: JSAM1103 CBCC: 0045 RAL: 1020
	150 W/m² RUSTY GREEN CODE: JSAM04-103 CBCC: 0694 RAL: 6016	140 W/m² INDIGO BLUE CODE: JSAM15-203 CBCC: 1226 RAL: 5009	112 W/m² CONSORT RED CODE: JSAM01-105 CBCC: 1084 RAL: 3011	132 W/m² APRICOT YELLOW CODE: JSAM1105 CBCC: 0046 RAL: 1000
108 W/m² ICE GREY CODE: JSAM10-110 CBCC: 1373 RAL: 7035	142 W/m² FRUIT GREEN CODE: JSAM04-105 CBCC: 0695 RAL: 6000	140 W/m² SEA BLUE CODE: JSAM15-205 CBCC: 1222 RAL: 5005	114 W/m² GLAZE RED CODE: JSAM1903 CBCC: 1684 RAL: 3013	137 W/m² TEA YELLOW CODE: JSAM1403 CBCC: 0093 RAL: 1024
129 W/m² DUSTY GRAY CODE: JSAM1005 CBCC: 1264 RAL: 7001	142 W/m² WAREHOUSE GRAY CODE: JSAM1003 CBCC: 1713 RAL: 7005	170 W/m² GRAPHITE CODE: JSM1261 CBCC: 1261 RAL: 9017	97 W/m² BRICK RED CODE: JSAM1908 CBCC: 1095 RAL: 3016	130 W/m² PEACH YELLOW CODE: JSAM1405 CBCC: 0992 RAL: 1001

BLACK BRICK / COLOR CARD

143 W/m² CODE: JSGRA-B1(A10-110)	144 W/m² CODE: JSGRA-B1(A1105)	145 W/m² CODE: JSGRA-B2(10-110)	161 W/m² CODE: JSGRA-B2(1105)
126 W/m² CODE: JSART-B1(A1908)	152 W/m² CODE: JSART-B1(A0605)	147 W/m² CODE: JSART-B1(A0402)	153 W/m² CODE: JSART-B1(A10-110)
119 W/m² CODE: JSMAR-B2(A10-110)	147 W/m² CODE: JSMAR-B1(A1105)	166 W/m² CODE: JSMAR-B1(A10-104)	163 W/m² CODE: JSART-B1(A1105)

BIPV ITALY
Building Integrated PhotoVoltaic



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