

More
+ Power
Less Expense

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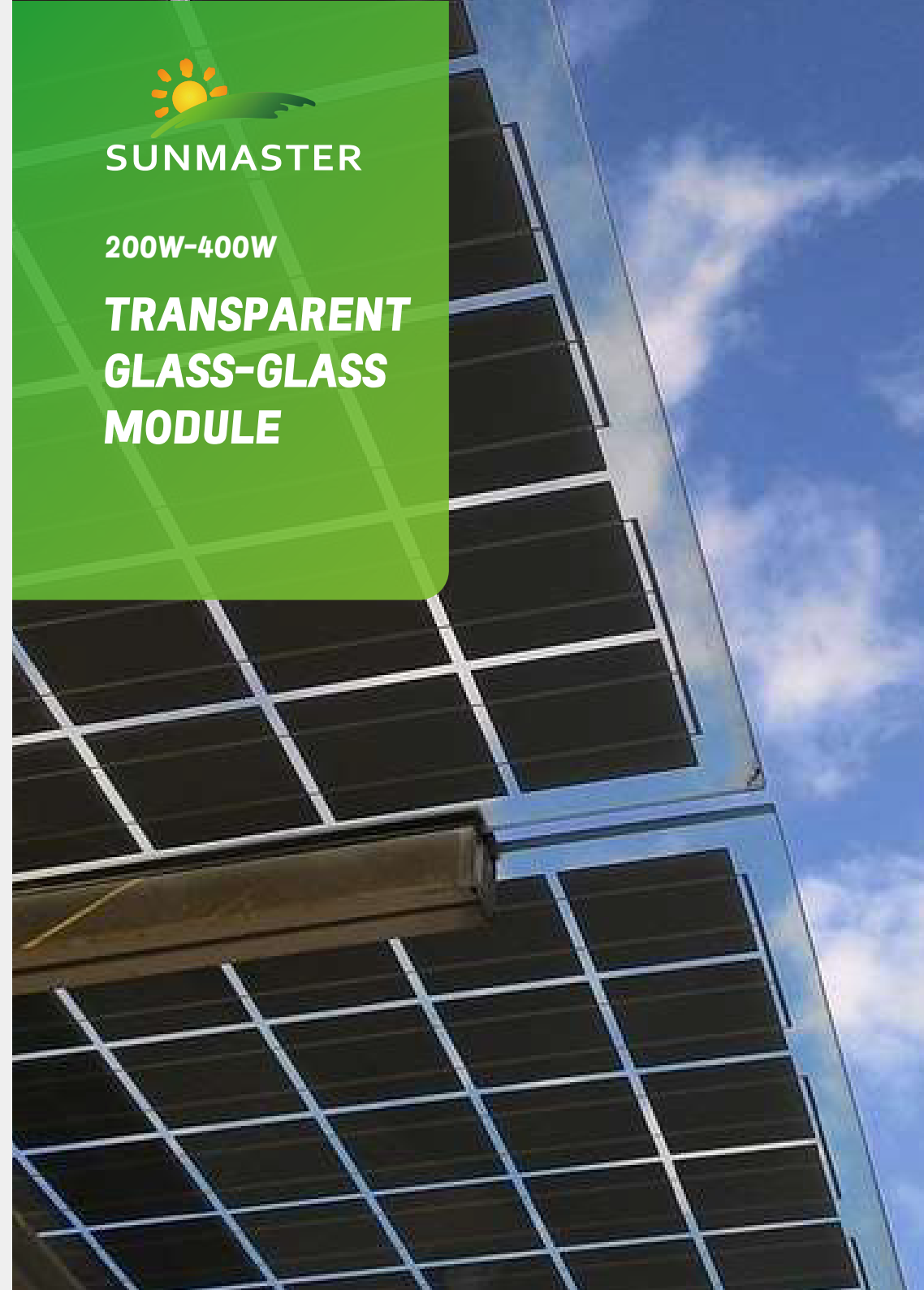
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SUNMASTER

200W-400W

**TRANSPARENT
GLASS-GLASS
MODULE**

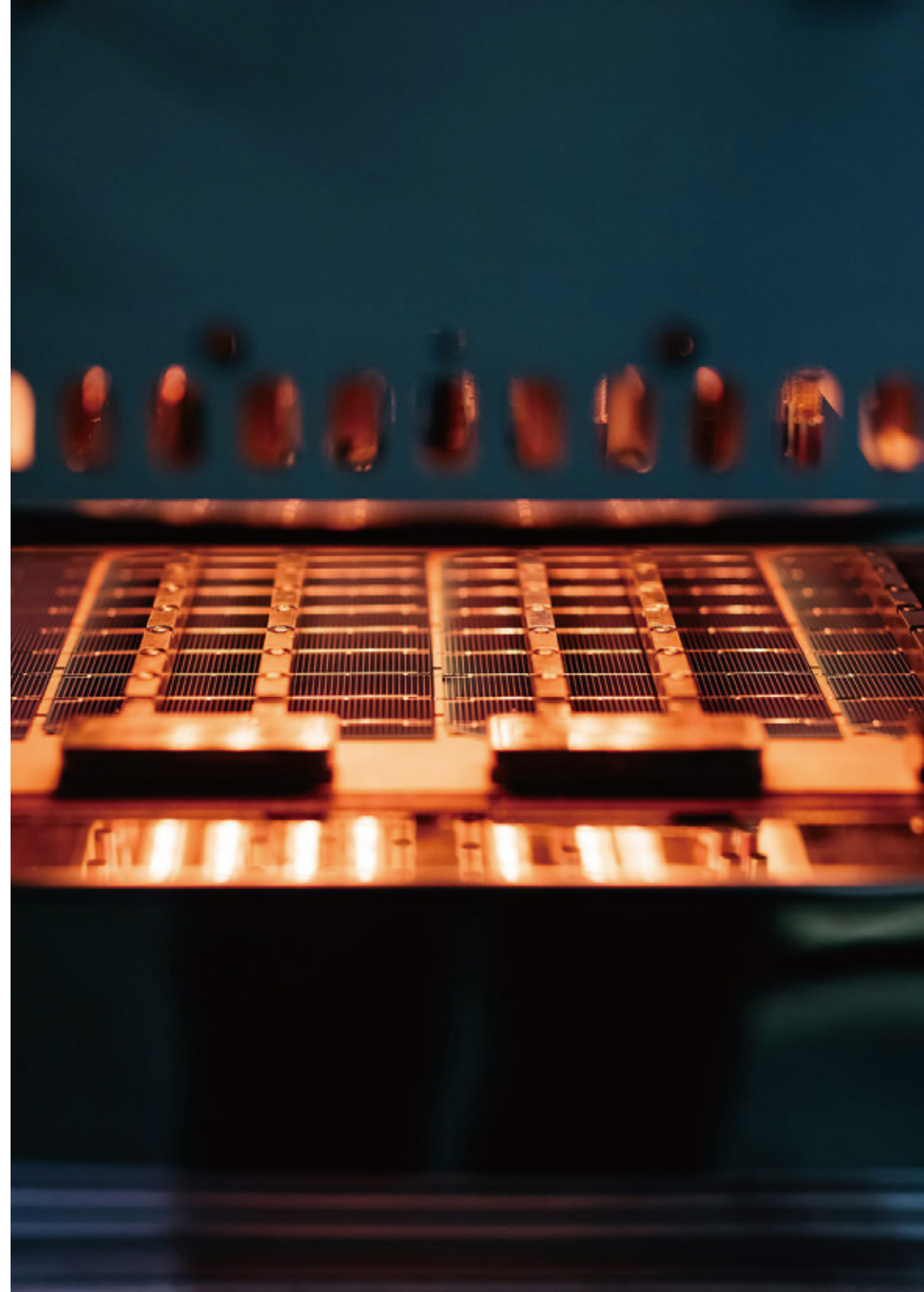


INNOVATION MADE IN GERMANY.

Transparent glass elements with integrated photovoltaic for spectacular BIPV-projects. The crystalline PV-cells are a striking design feature and communicate the use of renewable energy.

The individual product layout allows free choice of size and form. The level of transparency as well as the layout of the crystalline cells with highest efficiency levels can be chosen freely either. The use of design-PV-cells creates modules in different colors and varying effects. Special glasses and coatings can generate further functions and change the surface effect.

Transparent glass-glass modules SUNOVATION eFORM clear are especially used for large-scale glazing with integrated photovoltaic in overhead applications and as solar facades. However, they can be configured for fall protections, conservatories, canopies, artworks and much more.



ADVANTAGES:



Designed and manufactured in EU



Choice of standard or BIPV frame



Available with or without frame



Natural light transmission



Transparent back foil



Bifacial module



Excellent low light performance

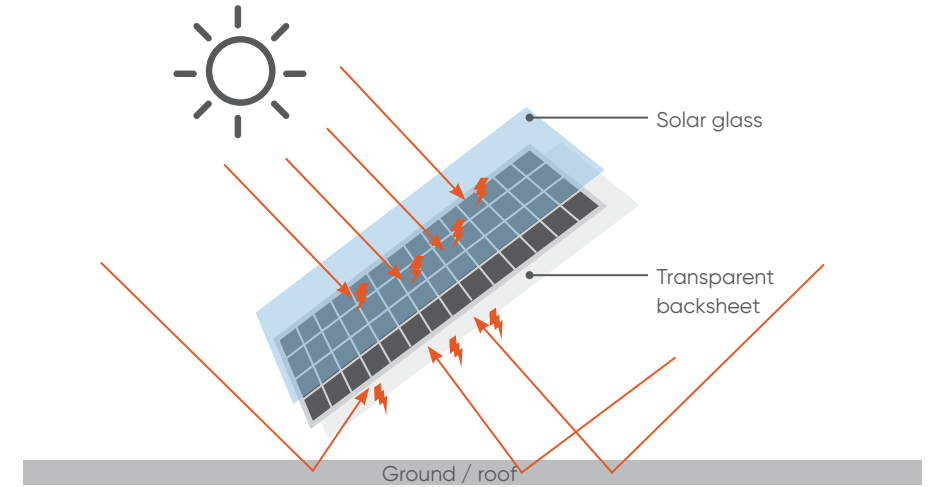


On-roof or BIPV

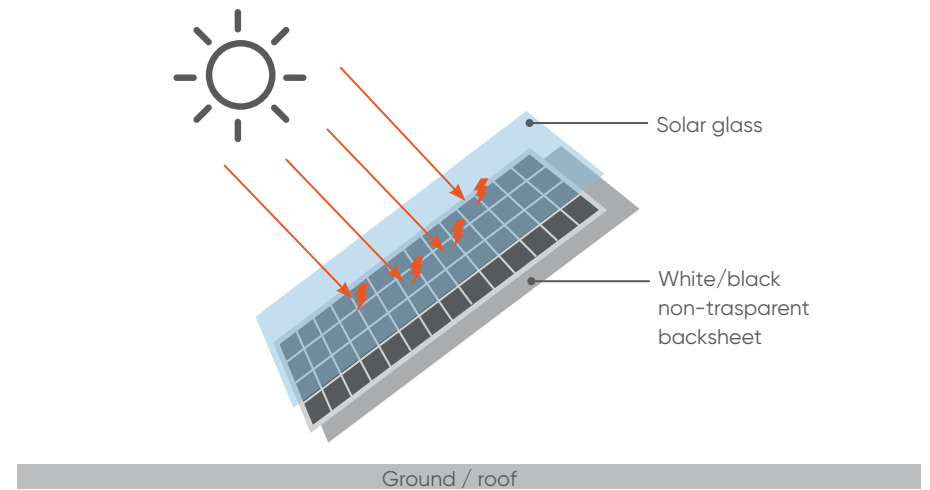


THE ADVANTAGE OF DOUBLE GLASS

Bifacial Module with Transparent Backsheet Technology



Standard Module without Transparent Backsheet Technology



Since the solar cells in the panels are bifacial, from a few and up to 60 % of the initial output power can be gained from the back side of the module, depending on reflecting properties of the surface behind and the design of the PV system.



SUNMASTER MODULE SM200M MONO



HJT solar cell is a new generation superior bifacial solar cell made out of N-type wafer, which combines merits of crystalline silicon and thin-film technology to form a single composite structure. As one of the most effective cell passivation technology in the market, HJT ensures that solar cells deliver high efficiency and great power even in hot climate.

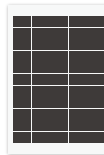
Higher Cell Efficiency

- Phosphorus fettering combines with double-sided microcrystal process to guarantee higher cell efficiency.
- Ultra-low temperature coefficient ensures higher and more stable power output in high temperature environment.
- No LID, No PID, lead to zero power loss.

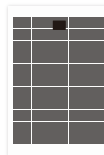
Maximum Module Power

- Half silicon ingot cutting wafer and SMBB technology to deliver higher energy output and lower power loss.
- The natural bifacial symmetrical structure of HJT cell can effectively improve the power generation capacity on cell's backside.
- No LID and No PID effectively extends the PV module life.
- PV systems with lower LCOE using HJT modules

Front side



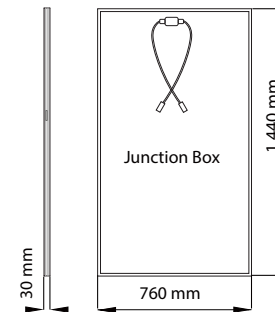
Back side



Detailed parameter

Module type	200W				
Number of Cells	56				
Cell Matrix	4X14				
Transparent Area	0.52m ² 22.5%				
	Front	Bifacial Gain			
Light Source	100%	10%	20%	30%	40%
Maximum power voltage Vmp(V)	32.4V	32.5V	32.6V	32.7V	32.8V
Maximum power current Imp(A)	6.18A	6.77A	7.37A	7.96A	8.54A
Open circuit Voltage Voc(V)	35.4V	35.5V	35.6V	35.7V	35.8V
Short circuit current Isc(A)	7.17A	7.93A	8.62A	9.32A	10.1A
Nominal Power(W)	200W	220W	240W	260W	280W
Module Efficiency	22.8%				
Power Output Tolerance	±3%				
Maximum Reverse Current	25A				
Maximum System Voltage	1,500V				

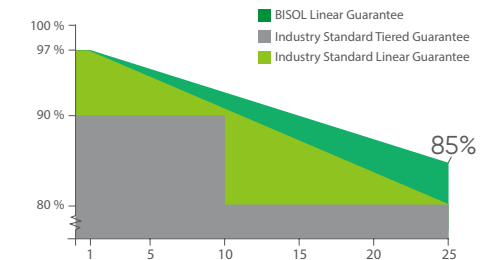
Dimensions



Guarantees:

20 Product Guarantee
Standard: 15 years
Extra: 20 years

25 Linear guarantee
85 % output in 25th year



The specification and key features described in this datasheet may be deviated slightly and are not guaranteed. SunMaster reserves the right to make any adjustment to the information described here at any time without notice. Please always obtain the latest version of the datasheet from our website: www.chinosunmaster.com or asking our sales for help. This datasheet could be considered as part of the contract if necessary, to make sure the products delivered is the same as the order.



SUNMASTER MODULE SM300M MONO



HJT solar cell is a new generation superior bifacial solar cell made out of N-type wafer, which combines merits of crystalline silicon and thin-film technology to form a single composite structure. As one of the most effective cell passivation technology in the market, HJT ensures that solar cells deliver high efficiency and great power even in hot climate.

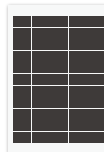
Higher Cell Efficiency

- Phosphorus fettering combines with double-sided microcrystal process to guarantee higher cell efficiency.
- Ultra-low temperature coefficient ensures higher and more stable power output in high temperature environment.
- No LID, No PID, lead to zero power loss.

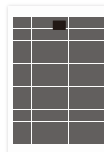
Maximum Module Power

- Half silicon ingot cutting wafer and SMBB technology to deliver higher energy output and lower power loss.
- The natural bifacial symmetrical structure of HJT cell can effectively improve the power generation capacity on cell's backside.
- No LID and No PID effectively extends the PV module life.
- PV systems with lower LCOE using HJT modules

Front side



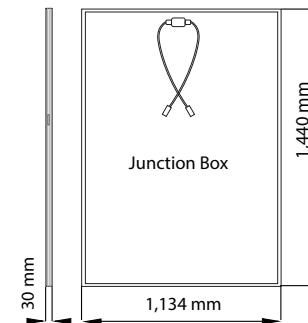
Back side



Detailed parameter

Module type	300W				
Number of Cells	84				
Cell Matrix	6x14				
Transparent Area	0.52m ² 22.5%				
	Front	Bifacial Gain			
Light Source	100%	10%	20%	30%	40%
Maximum power voltage Vmp(V)	24.3V	24.4V	24.5V	24.6V	24.7V
Maximum power current Imp(A)	12.35A	13.53A	14.7A	15.86A	17.1A
Open circuit Voltage Voc(V)	30.9V	31V	31.1V	31.2V	31.3V
Short circuit current Isc(A)	12.6A	13.63A	14.82A	16.1A	17.2A
Nominal Power(W)	300W	330W	360W	390W	420W
Module Efficiency	23.8%				
Power Output Tolerance	±3%				
Maximum Reverse Current	25A				
Maximum System Voltage	1,500V				

Dimensions



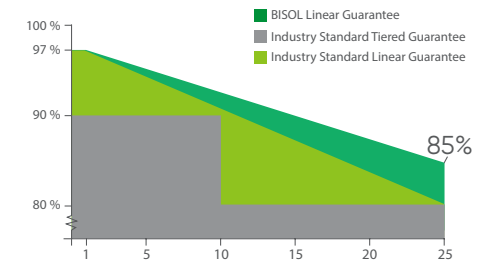
Guarantees:



Product Guarantee
Standard: 15 years
Extra: 20 years



Linear guarantee
85 % output in 25th year





SUNMASTER MODULE SM400M MONO



HJT solar cell is a new generation superior bifacial solar cell made out of N-type wafer, which combines merits of crystalline silicon and thin-film technology to form a single composite structure. As one of the most effective cell passivation technology in the market, HJT ensures that solar cells deliver high efficiency and great power even in hot climate.

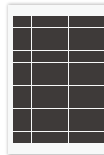
Higher Cell Efficiency

- Phosphorus fettering combines with double-sided microcrystal process to guarantee higher cell efficiency.
- Ultra-low temperature coefficient ensures higher and more stable power output in high temperature environment.
- No LID, No PID, lead to zero power loss.

Maximum Module Power

- Half silicon ingot cutting wafer and SMBB technology to deliver higher energy output and lower power loss.
- The natural bifacial symmetrical structure of HJT cell can effectively improve the power generation capacity on cell's backside.
- No LID and No PID effectively extends the PV module life.
- PV systems with lower LCOE using HJT modules

Front side



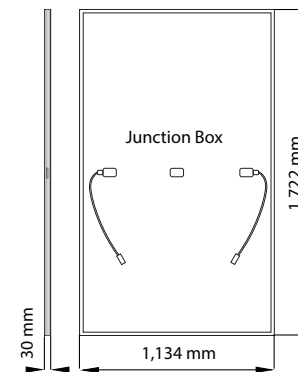
Back side



Detailed parameter

Module type	400W				
Number of Cells	108				
Cell Matrix	6X18				
Transparent Area	0.52m ² 22.5%				
	Front	Bifacial Gain			
Light Source	100%	10%	20%	30%	40%
Maximum power voltage Vmp(V)	31.0V	31.1V	31.2V	31.3V	31.4V
Maximum power current Imp(A)	12.91A	14.15A	15.39A	16.62A	17.84A
Open circuit Voltage Voc(V)	37.2V	37.3V	37.4V	37.5V	37.6V
Short circuit current Isc(A)	13.7A	15.1A	16.43A	17.75A	19.1A
Nominal Power(W)	400W	440W	480W	520W	560W
Module Efficiency	24.8%				
Power Output Tolerance	±3%				
Maximum Reverse Current	25A				
Maximum System Voltage	1,500V				

Dimensions



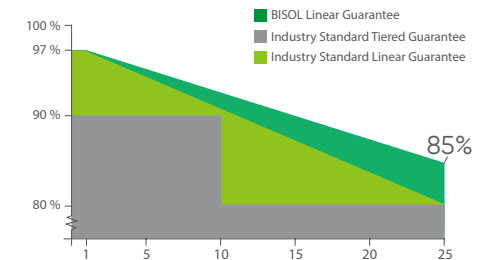
Guarantees:



Product Guarantee
Standard: 15 years
Extra: 20 years



Linear guarantee
85 % output in 25th year





HIGH QUALITY CHARACTERISTIC

SunMaster modules are extremely lightweight compared to similar products on the market. Simultaneously, they are remarkably rigid and prone to hail, snow, wind and other demanding weather conditions.



Lightweight



Rigid materials



Simple installation

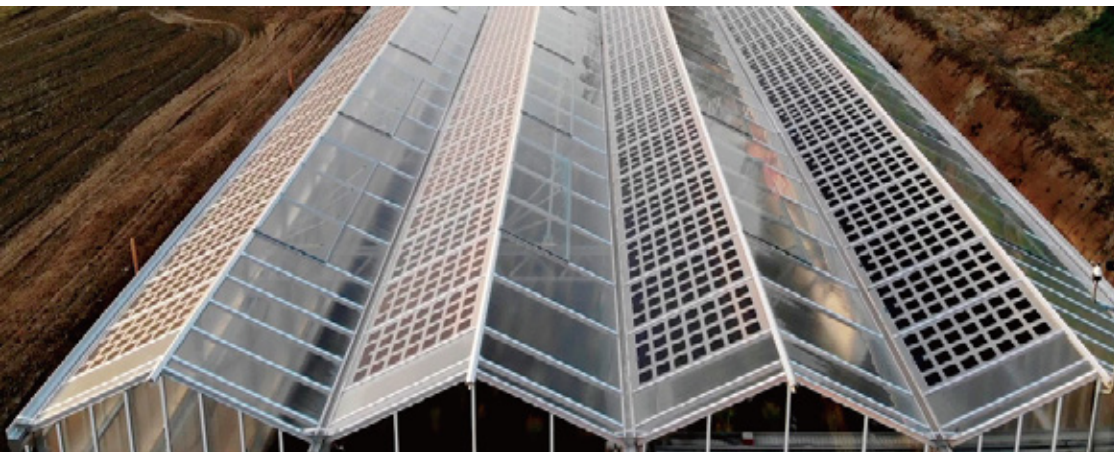
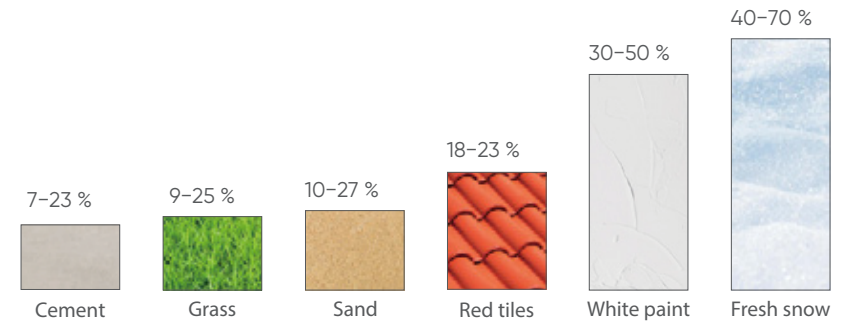


Extreme weather conditions



The albedo responsible for gaining power from the rear side depends on reflecting properties of the surface behind the module.

Approximate percentage of gained power according to different surfaces*:



*The exact number depends on many factors, such as the colour shade of the surface as well as the amount of diffuse sunlight, the reflected diffuse sunlight and the reflected direct sunlight.