



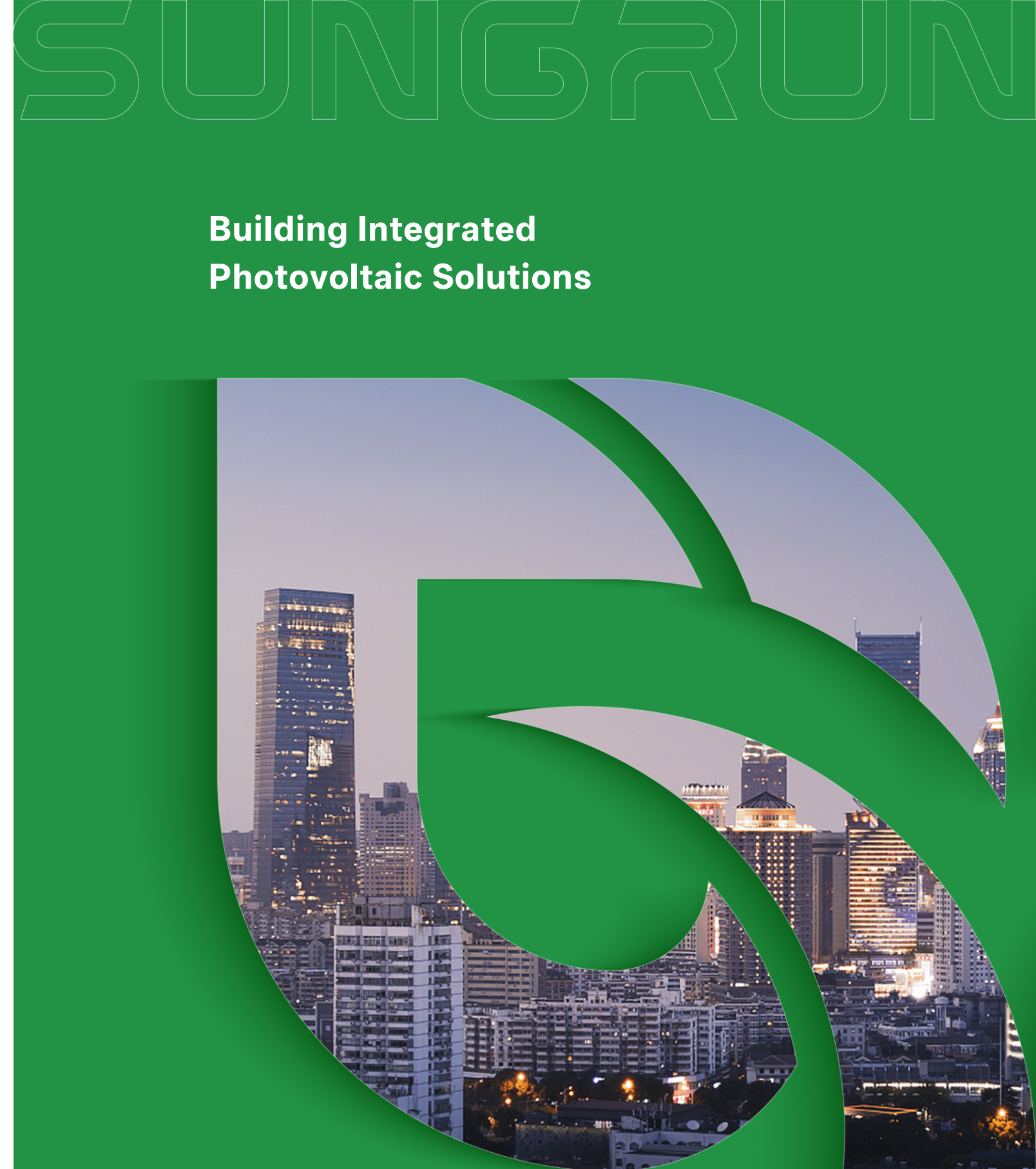
Grunsolar Technology Co.,Ltd

Web: www.grunsolar.com

Email: info@grunsolar.com

Tel / WhatsApp / WeChat: 0086-18956989152 / 0086-15055979752

Add: Floor13, Building15, No.868 Qinghe Road, Lindian Street, Luyang District, Hefei City, Anhui Province, China.



Building Integrated Photovoltaic Solutions

Grunsolar Technology Co.,Ltd



ABOUT US

Company Introduction

Grunsolar is a new energy company integrating innovation, sustainability, and a global perspective. We are a consolidation of Grun Energy Holding Group and Grun Energy Green Building Technology Group, bringing together over 120 national patents and more than 15 years of deep experience in green building, photovoltaic system technology, and energy storage solutions. As one of the leaders in China's photovoltaic industry, our mission is to drive global energy transformation and provide efficient and reliable renewable energy products and services. Headquartered in China, we have project experience in more than 30 countries worldwide and local support teams in Europe, North America, and Southeast Asia. Our aim is to serve the global market through localized production and a global supply chain, helping customers achieve their carbon reduction goals. The newly integrated entity has a capital of over 500 million RMB and an annual production capacity covering four core business segments (Building Integrated Photovoltaics (BIPV) and innovative applications, portable energy systems, energy storage systems, and photovoltaic power plant construction), committed to becoming a "global partner for innovative green energy solutions".

120⁺

National Patent

15

Years

30

Countries

Company History

2009

The predecessor of Grunsolar was established.

2011

Focusing on the R&D and engineering application of Building Integrated Photovoltaics (BIPV) technology, continuously advancing the layout of core patents, and gradually improving the R&D system.

2013

Established the first comprehensive production base in cooperation, achieving independent manufacturing of photovoltaic modules and building energy-saving products.

2017

The energy storage system business segment was officially commercialized, providing one-stop solutions for industrial, commercial, and residential scenarios.

2018

The first overseas project in Southeast Asia was completed and delivered in its entire lifecycle.

2019

Global project coverage exceeded 20 countries, forming a global operating model of "headquarters R&D and production + overseas local services".

2024

The four core business segments are fully operating in synergy, and end-to-end service capabilities have been significantly improved.

2025

"Grunsolar" officially launched its global brand "SUNGRUN", achieving industry-leading annual production capacity and service delivery capabilities.

2026

In 2026, Grunsolar will strategically position itself as a "global partner for innovative green energy solutions," leveraging its complete industry chain advantages that integrate R&D, production, application, sales, installation, and operation and maintenance to continue to deepen its localized operations in Europe, North America, Southeast Asia, and other regions.

Core Business



BIPV Innovative Application

Integrating CdTe PV modules into the building structure achieves a balance between production capacity and aesthetics.



Portable Energy System

Integrating clean energy technologies for outdoor activities to enhance energy self-sufficiency.



Energy Storage System

Covering energy storage needs from individuals to businesses and industries.



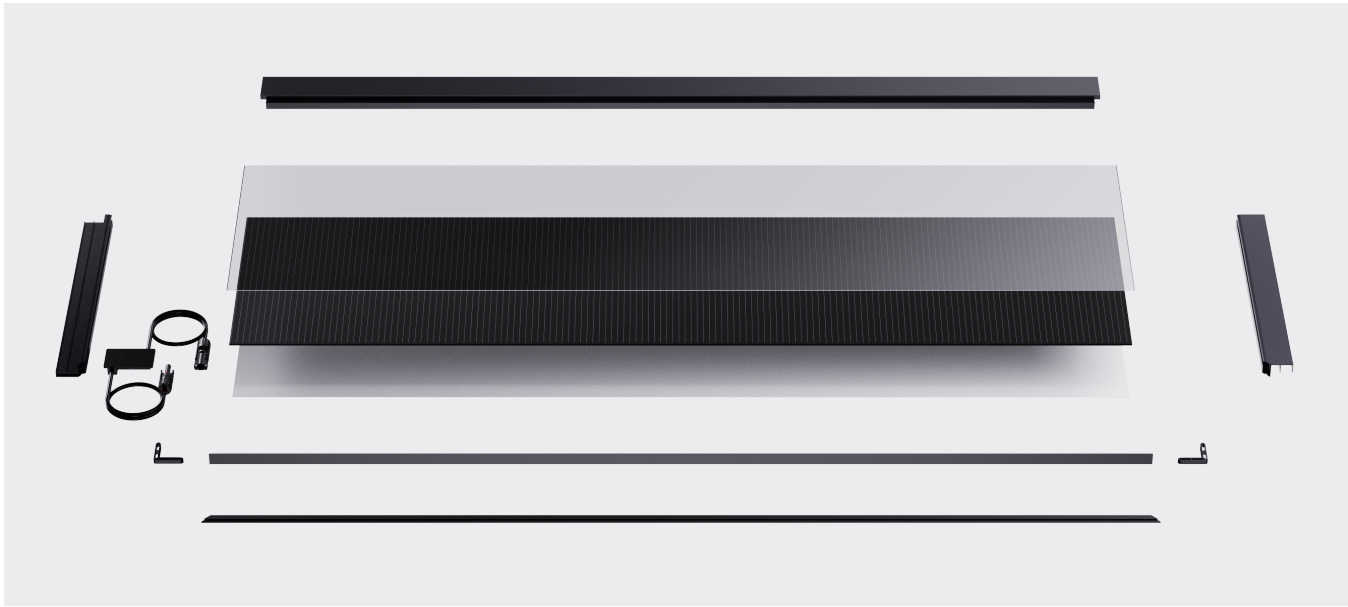
Photovoltaic Power Station Construction

A full-cycle service system from photovoltaic power plant design and construction to intelligent operation.

04

Product Introduction

Grunsolar has successfully developed nine series and over 50 types of CdTe thin film PV building materials product, which can widely meet the needs of various building application scenarios. These products have high flexibility and can be customized with parameters such as color, pattern, structure, size, shape, and light transmittance according to specific customer needs, truly achieving the substitution of PV building materials for traditional building materials in the construction field.



Grunsolar CdTe PV Building Materials

Revolutionizing tradition, pioneering a new era of green, sustainable construction.



Strong Power Generation Capacity



High Safety



Good Aesthetics



High Degree Of Customization



Low Production Cost



Green And Recyclable

Product Line

01
Standard Thin Film Module



02
Semi-transparent Pv Modules



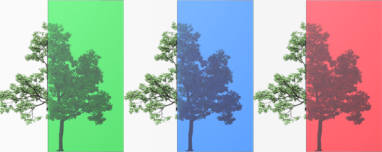
03
Color Module



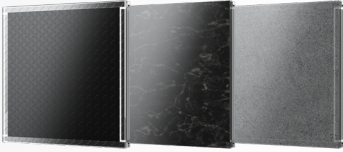
04
PV-Tile



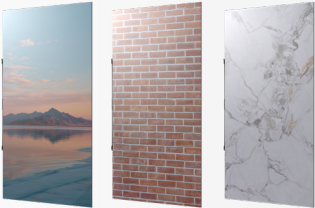
05
Colored Semi - Transparent Module



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PV Footpath



07
Imitation Building Material Modules



08
Ink Painting Modules



09
PV Square Tile



10
Curved PV Tile



445-505W

BA445-505W

Standard Thin Film Module

Whether it is rooftop PV power stations, ground centralized PV power stations, or BIPV project applications, the new generation of ultra large CdTe PV modules can provide efficient, reliable,aesthetically pleasing, and cost-effective solutions.



Different markets have varying certification requirements—please consult your Grun solar sales representative for details. For special installation conditions, contact Grun solar’ s technical support team in advance.

Electrical Performance Parameters						
Procatmmodel	S5-445	S5-475	S5-505	S6-445	S6-475	S6-505
Norminal Power	445W	475W	505W	445W	475W	505W
Voc	184.0V	185.5V	186.5V	92.0V	92.75V	93.25V
Isc	3.5A	3.55A	3.6A	7.0A	7.1A	7.2A
Vm	144.5V	148.4V	153.0V	72.25V	74.2V	76.5V
Im	3.08A	3.2A	3.3A	6.16A	6.4A	6.6A
Model	L2300*W1215*D5.6mm					
Weight	44kg					
Power Temperature Coefficient	-0.214% / °C					
Voltage Temperature Coefficient	-0.321% / °C					
Current Temperature Coefficient	0.060% / °C					
Test Conditions	STC:1000W/m², AM1.5, 25°C					

84-480W

BC84-300W

Semi-transparent Pv Modules

The Semi-transparent Series stands out in the BIPV field due to its exceptional clarity and customizable light transmittance. It offers tailored solutions for various BIPV applications, including photovoltaic curtain walls,skylights, shading systems, and agricultural greenhouses. This product line achieves an optimal balance between light transmission and power generation efficiency, while also providing extensive customization options in structural thickness, module dimensions, and shapes-meeting the demands of diverse and complex application scenarios.



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Electrical Performance Parameters											
Procatm Model	LAM1-T20	LAM1-T40	LAM2-T20	LAM2-T40	LAM3-T20	LAM3-T40	LAM4-T20	LAM4-T40	LAM5-T20	LAM5-T40	LAM4-T50
Normin0al Power	84W	63W	160W	120W	360W	270W	323W	242W	480W	360W	300W
Voc	116.0V	116.0V	116.0V	116.0V	184.0V	184.0V	116.0V	116.0V	116.0V	116.0V	116.0V
Isc	1.11A	0.83A	2.12A	1.59A	2.9A	2.2A	4.27A	3.2A	6.34A	4.75A	3.96A
Vm	86.37V	86.37V	86.37V	86.37V	143.8V	143.8V	86.37V	86.37V	86.37V	86.37V	86.37V
Im	0.98A	0.73A	1.86A	1.4A	2.50A	1.90A	3.74A	2.81A	5.56A	4.17A	3.48A
Transmittance	20%	40%	20%	40%	20%	40%	20%	40%	20%	40%	50%
Dimension	L1200*W600*D7mm		L1200*W1200*D16mm		L1215*W2300*D16mm		L1200*W2400*D18mm		L1200*W3600*D16mm		
Composition & Weight	3.2+0.72pvb+3.2mm 12kg		5+1.52pvb+3.2+1.52pvb +5mm 52kg		5+1.52pvb+3.2+1.52pvb +5mm 101.6kg		6+1.52pvb+3.2+1.52pvb +6mm 119kg		6+1.52pvb+3.2+1.52pvb+6+12A +6mm 255kg		
Power Temperature Coefficient				-0.214% / °C							
Voltage Temperature Coefficient				-0.321% / °C							
Current Temperature Coefficient				0.060% / °C							
Test Conditions				STC:1000W/m², AM1.5, 25°C							

66-407W

BD80-315WDG

Color Module

Grunsolar's color PV product series leads the green building trend with diverse colors and customized dimensions. Whether it's building facade curtain walls or roof decorations, colored PV products can provide exclusive customized solutions. This series not only adopts Grunsolar's unique advanced nano coating technology to ensure long-lasting and brilliant colors, but also has excellent photoelectric conversion efficiency to maximize energy output. The color PV series has the advantage of high cost-effectiveness, and its economy has reached the level of third-party investment. Its intelligent color rendering technology endows buildings with dynamic beauty and interprets the harmonious coexistence of technology and nature. Standardized module design, supporting fast and safe installation; Integrated building materials system, reducing operation and maintenance costs, and achieving efficient management.



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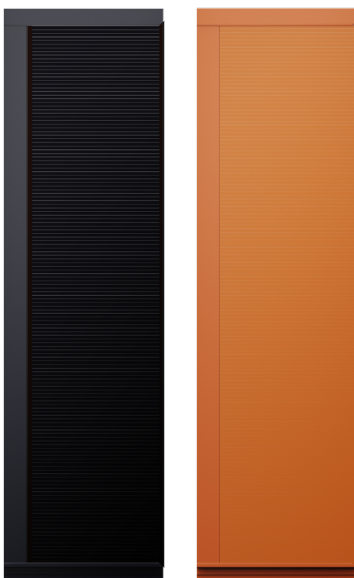
Electrical Performance Parameters												
Product Series And Main Colors	Double Glass				Triple Glass				Anti-reflection			
	Grey	Blue	Silvery	Golden	Grey	Blue	Silvery	Golden	Grey	Blue	Silvery	Golden
norminal Power	80W	101W	66W	78W	315W	395W	260W	305W	324W	407W	268W	315W
Voc	116.0V	116.0V	116.0V	116.0V	184.0V	184.0V	184.0V	184.0V	184.0V	184.0V	184.0V	184.0V
Isc	1.06A	1.34A	0.88A	1.03A	2.52A	3.16A	2.09A	2.45A	2.6A	3.26A	2.15A	2.52A
Vm	86.4V	86.4V	86.4V	86.4V	143.8V	143.8V	143.8V	143.8V	143.8V	143.8V	143.8V	143.8V
Im	0.93A	1.17A	0.77A	0.91A	2.19A	2.75A	1.81A	2.13A	2.26A	2.83A	1.87A	2.19A
Model	L1200*W600*D7.9mm				L1215*W2300*D12.64mm				L1215*W2300*D16.24mm			
Weight	12kg				59kg				102kg			
Power Temperature Coefficient			-0.214% / °C									
Voltage Temperature Coefficient			-0.321% / °C									
Current Temperature Coefficient			0.060% / °C									
Test Conditions			STC:1000W/m², AM1.5, 25°C									

25-50W

GTW-G1 / GTW-G2

PV-Tile

Grunsolar's PV Tile series, a revolutionary work in architectural aesthetics and photovoltaic technology! Not only as an efficient power generation component, but also leading the new trend of building rooftop PV with excellent integrity, durability, safety, and waterproof performance. PV Tile has a service life of over 25 years, significant economic benefits, and a much higher return on investment than traditional building materials. PV Tile has excellent thermal insulation performance and saves energy costs. It is easy and efficient to install greatly reducing construction costs. At the same time, it has high installed capacity and top-notch power generation efficiency, with rich and diverse colors to meet personalized needs.



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Electrical Performance Parameters		
Model	GTW-G1/600	GTW-G1/1200
Product Size	660*352*20mm	1260*352*20mm
Pm	25W	50W
Voc	56.58V	116.00V
Isc	0.64A	0.64A
Vm	42.13V	86.37V
Im	0.60A	0.59A
Weight	4 Kg per piece	8 Kg per piece
Thickness	20mm	
Product Structure	3.2 mm solar panel substrate glass + 0.5 mm EVA & edge-sealing tape + 3.2 mm standard white float glass	
Product Color	Black, Red	
Power Temperature Coefficient	-0.214% / °C	
Voltage Temperature Coefficient	-0.321% / °C	
Current Temperature Coefficient	0.060% / °C	
Fire Detection	A	
Waterproof Testing	Passed the rain simulation test	
Waterproofing Method	Structural Lap Waterproofing	
Wind Resistance Test	Meets Class F wind resistance standards, capable of withstanding winds of up to Force 15	

63-480W

BE84-480W

Colored Semi-transparent Module

The Colored Semi-Transparent Module is designed to deliver versatile and colorful light-transmitting solutions for BIPV projects. This product line offers a wide range of color options,with customizable light transmittance, structure, and module dimensions to meet diverse design requirements. Widely used in PV curtain walls, skylights, shading systems, and other applications, it has gained strong market recognition for its excellent performance and aesthetic appeal.



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Electrical Performance Parameters											
Product Model	CLR1-T20	CLR1-T40	CLR2-T20	CLR2-T40	CLR3-T20	CLR3-T40	CLR4-T20	CLR4-T40	CLR5-T20	CLR5-T40	CLR5-T50
Norminal Power	84W	63W	160W	120W	360W	270W	323W	242W	480W	360W	300W
Voc	116.0V	116.0V	116.0V	116.0V	184.0V	184.0V	116.0V	116.0V	116.0V	116.0V	116.0V
Isc	1.11A	0.83A	2.12A	1.59A	2.9A	2.2A	4.27A	3.2A	6.34A	4.75A	3.96A
Vm	86.37V	86.37V	86.37V	86.37V	143.8V	143.8V	86.37V	86.37V	86.37V	86.37V	86.37V
Im	0.98A	0.73A	1.86A	1.4A	2.50A	1.90A	3.74A	2.81A	5.56A	4.17A	3.48A
Transmittance	20%	40%	20%	40%	20%	40%	20%	40%	20%	40%	50%
Dimension	L1200*W600*D7mm		L1200*W1200*D16mm		L1215*W2300*D16mm		L1200*W2400*D18mm		L1200*W3600*D16mm		
Composition & Weight	3.2+0.72pvb+3.2mm 12kg		5+1.52pvb+3.2+1.52pvb +5mm 52kg		5+1.52pvb+3.2+1.52pvb +5mm 101.6kg		6+1.52pvb+3.2+1.52pvb +6mm 119kg		6+1.52pvb+3.2+1.52pvb+6+12A +6mm 255kg		
Power Temperature Coefficient			-0.214% / °C								
Voltage Temperature Coefficient			-0.321% / °C								
Current Temperature Coefficient			0.060% / °C								
Test Conditions			STC: 1000W/m², AM1.5, 25°C								

46W

BF46W

PV Footpath

PV Footpath feature a structure made of tempered, thickened, and anti-slip laminated glass. They not only provide the decorative effect and load-bearing capacity of traditional floor tiles but also incorporate advanced photovoltaic technology to efficiently convert solar energy into electricity, contributing clean power to urban areas. By skillfully integrating PV technology with urban development needs, this product is becoming an ideal choice for enhancing city landscapes and promoting efficient energy use. The Yi Brick Series is suitable for various applications such as pedestrian walkways, scenic glass trails, parks, communities, and campuses, demonstrating its broad application potential and value.



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Electrical Performance Parameters	
Norminal Power	46W
Voc	60.1V
Isc	1.24A
Vm	44.6V
Im	1.04A
Model	L600*W600*D51mm
Composition	8mm Tempered glass+1.52mmPVB+3.2mm Power glass+1.52mmPVB+8mm Tempered glass
Weight	21kg
Color Pattern	Colors and patterns can be customized to specific project requirements.
Power Temperature Coefficient	-0.214% / °C
Voltage Temperature Coefficient	-0.321% / °C
Current Temperature Coefficient	0.060% / °C

40-125W/m²

BG40-125W

Imitation Building Material Modules

The product series carves out a distinctive position in the BIPV market with its unique colored patterns and highly flexible customization. It seamlessly accommodates a wide range of applications—from colored pattern PV facades and building-material-imitating PV claddings to patterned photovoltaic roofing projects—meeting diverse demands for custom colors and realistic material textures. By perfectly integrating colored designs with imitation architectural textures, the series also offers comprehensive customization in structure and module dimensions, adapting effortlessly to varied and complex design scenarios.



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Patterns, Dimensions, Structure, And Shape Are All Customizable.

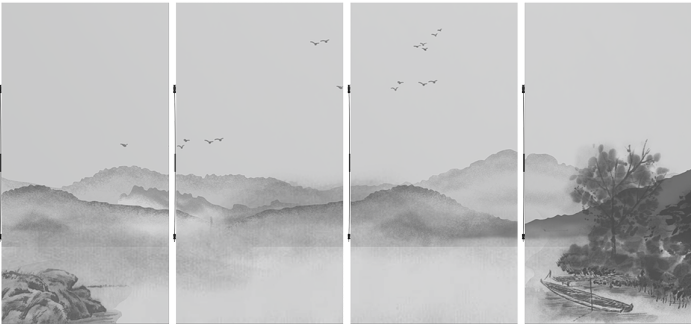
Recommended Size	L1200*W600*D13mm、L1200*W1200*D16mm、L1200*W1800*D22mm
Recommended Structure	5mm Tempered glass+1.52mmPVB+3.2mm Power glass+1.52mmPVB+5mm Tempered glass 8mm Tempered glass+1.52mmPVB+3.2mm Power glass+1.52mmPVB+8mm Tempered glass
Norminal Power	40-125W/m² (Variation in power output across different imitation material textures and color patterns)

Ink Painting

BH

Modules

The Ink Wash Painting Modules cater to architects' pursuit of diverse artistic expression. Drawing on ASP's proprietary core technology and sophisticated manufacturing processes, we successfully integrate the artistic essence of traditional Chinese ink wash painting into the product. Uniquely suited for PV facades, railings, and other applications, they demonstrate distinctive advantages through their exceptional aesthetic appeal.



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Features

Chinese Ink Painting Aesthetics In Design

Infused with the aesthetic of traditional Chinese ink wash painting, these panels feature customizable ink-wash motifs—such as distant mountains and mist—along with varying shades of ink. The color is uniform and free of blotches, and the light transmittance is adjustable. They serve as a direct replacement for curtain walls, windows, and decorative panels, making them a perfect fit for BIPV applications in high-end Chinese-style architecture and cultural venues.

Excellent Power Generation Performance

Building on the core advantages of cadmium telluride thin-film technology—low temperature coefficient (approximately -0.21%/°C, far superior to crystalline silicon), resulting in minimal power degradation during high summer temperatures; excellent low-light response, enabling efficient power generation at dawn, dusk, and on cloudy days; a long-strip cell design that minimizes hot-spot effects and enhances safety; and no significant light-induced degradation—it comes with a 25-year power output warranty (typically 80% of initial output).

Integrated Installation Adapter

It integrates seamlessly with component-based and unitized curtain wall systems, eliminating the need for additional photovoltaic mounting brackets and thereby saving time and costs; it is suitable for exterior facades and interior translucent decorations in landmark buildings, cultural venues, and high-end office towers.

Green Manufacturing And Certification

The core manufacturing processes have been localized, and the products have obtained certifications such as Golden Sun, TUV, and UL, as well as a green building materials rating. Combining power generation with architectural decoration, they realize the concept of “building materials as power-generating elements.”

Highly Customizable + Construction-grade Structure

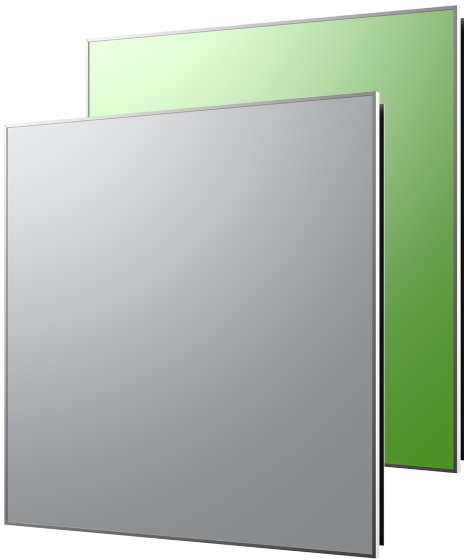
Customizable in size, shape, pattern, light transmittance, and laminated structure (hollow/laminated); made from tempered glass substrates, fire-resistant and waterproof, suitable for direct use in curtain walls, skylights, and partitions; low breakage rate, ideal for large-scale installations.

52W

BI52W

PV Square Tile

Grunsolar's PV Tile series, a revolutionary work in architectural aesthetics and photovoltaic technology! Not only as an efficient power generation component, but also leading the new trend of building rooftop PV with excellent integrity, durability, safety, and waterproof performance. PV Tile has a service life of over 25 years, significant economic benefits, and a much higher return on investment than traditional building materials. PV Tile has excellent thermal insulation performance and saves energy costs. It is easy and efficient to install greatly reducing construction costs. At the same time, it has high installed capacity and top-notch power generation efficiency, with rich and diverse colors to meet personalized needs.



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Electrical Performance Parameters	
Model	603*603*50mm（Sizes can be customized）
Norminal Power	52W（Different colors result in differences in power）
Voc	58.0V
Isc	1.39A
Vm	43.2V
Im	1.22A
Weight	double glass 7kg / pcs、 triple glass 10kg / pcs（Different structures, sizes, and weights）
Thickness	6.9mm、 11mm
Composition	3.2mm Power glass + 0.5mm + 3.2mm Float glass (with Aluminum frame) 3.2mm Ultra clear glass + 0.76mm + 3.2mm Power glass + 0.76mm + 3.2mm Float glass (with Aluminum frame)
Product Color	Black, blue, red, gold, silver, green, gray, etc
Waterproofing Method	Structural overlap waterproofing
Power Temperature Coefficient	-0.214% / °C
Voltage Temperature Coefficient	-0.321% / °C
Current Temperature Coefficient	0.060% / °C

30W

BJ30W

Curved PV Tile

Leveraging advanced thin-film solar technology, Hanwa has made sustainable development the cornerstone of its product research and development, integrating solar panels with roofing materials to launch innovative products. Hanwa employs a specialized lamination process with dual inner and outer layers to precisely encapsulate lightweight, high-efficiency, and flexible copper-indium-gallium-sele-nide (CIGS) thin-film solar cells within an inner glass layer with over 91.5% light transmittance. This maximizes the high conversion efficiency of the thin-film solar cells while ensuring exceptional strength, toughness, and impact resistance, achieving the highest level of hail resistance.



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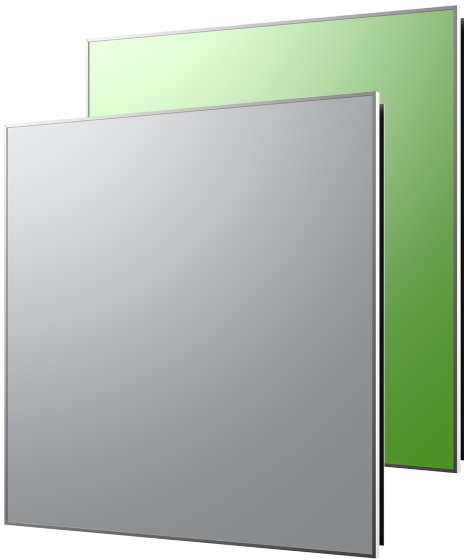
Electrical Performance Parameters	
Model	721*500mm
Weight	6.5 (+0.5) Kg
Linear Power Guarantee	25 Years
Power	30±5W
Short-circuit Current	4A
Load Rating	5400Pa
Waterproof Rating	IP67
Fire Resistance Rating	A
Wind Resistance Level	F
Antiblocking Hail Grade	4
Working Temperature	-40°C - +85°C

52W

BI52W

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Weight	double glass 7kg / pcs、 triple glass 10kg / pcs（Different structures, sizes, and weights）
Thickness	6.9mm、 11mm
Composition	3.2mm Power glass + 0.5mm + 3.2mm Float glass (with Aluminum frame) 3.2mm Ultra clear glass + 0.76mm + 3.2mm Power glass + 0.76mm + 3.2mm Float glass (with Aluminum frame)
Product Color	Black, blue, red, gold, silver, green, gray, etc
Waterproofing Method	Structural overlap waterproofing
Power Temperature Coefficient	-0.214% / °C
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Current Temperature Coefficient	0.060% / °C

30W

BJ30W

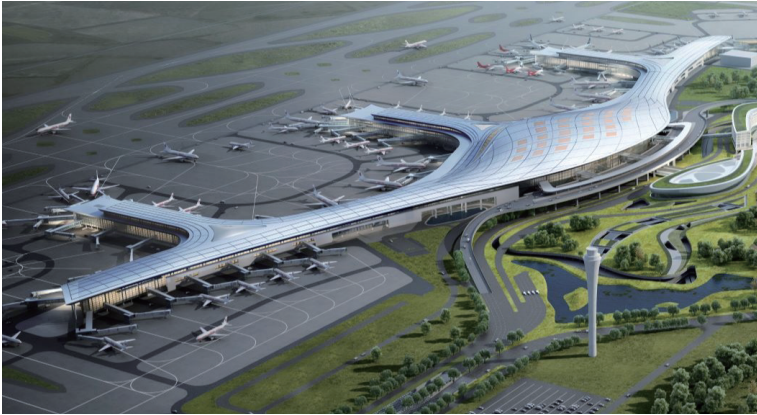
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Electrical Performance Parameters	
Model	721*500mm
Weight	6.5 (+0.5) Kg
Linear Power Guarantee	25 Years
Power	30±5W
Short-circuit Current	4A
Load Rating	5400Pa
Waterproof Rating	IP67
Fire Resistance Rating	A
Wind Resistance Level	F
Antiblocking Hail Grade	4
Working Temperature	-40°C - +85°C



Building-Integrated Photovoltaic System

2.11MW

Location: Hefei Xinqiao International Airport, Anhui, China

The CdTe glass curtain wall in Terminal 2 covers approximately 8,900 square meters, with 1.42MW of crystalline silicon modules, totaling 15,100 square meters and a total installed capacity of 2.11MW. This project boasts the largest area of CdTe photovoltaic glass used in any airport project currently under construction in China.



Building-integrated Photovoltaics On Roofs

2.77MW

Location: Fusion Reactor Mainframe Key System
Comprehensive Research Facility, Anhui, China

The Hefei "Fusion Reactor Mainframe Key System Comprehensive Research Facility" covers an area of 40 hectares and has 14 individual buildings with a total construction area of 138,900m². It is a large-scale scientific facility that was prioritized for deployment in the "13th Five-Year Plan" and is also an important demonstration project for distributed photovoltaic power generation in Hefei, using cadmium telluride thin-film modules.



Photovoltaic Power Generation Curtain Wall

20000m²

Location: Guangzhou Art Museum, Guangdong, China

The photovoltaic curtain wall composed of cadmium telluride thin-film nine-grid photovoltaic modules is a world first. The application of photovoltaic modules throughout the facade and roof is also a global first in large-scale venue construction. Grunsolar provided integrated design and construction for the photovoltaic power generation curtain wall project, achieving a perfect fusion of BIPV functionality and aesthetics.



Building-Integrated Photovoltaic System

5020m²

Location: Feidong Financial Building, Anhui, China

The Feidong Financial Building has a total construction area of 102,200m², with 36 floors and a height of 159.45 meters above ground. It is a landmark building in the core financial office area of Feidong County. The Feidong Financial Building photovoltaic curtain wall power generation project emphasizes both efficient energy utilization and harmonious coexistence between the building and the environment, possessing good economic, environmental, and social benefits.



Building-integrated Photovoltaics On Roofs

120.96kW

Location: Hefei No. 9 Middle School, Anhui, China

This project involves installing thin-film photovoltaic modules on the roof of the school's comprehensive building, which simultaneously provide sun shading, rain protection, power generation, and structural maintenance functions. A total of 896 photovoltaic modules were installed.



Building-Integrated Photovoltaic System

976m²

Location: Hefei Academy of Agricultural
Sciences, Anhui, China

Installing a cadmium telluride photovoltaic curtain wall in the experimental building of the Academy of Agricultural Sciences to realize a new energy application model of photovoltaic&scientific research; effectively promoting photovoltaic green new energy.