

ADD: Lianrong Village, Henglin Town, Wujin District, 213101, Changzhou City, China TEL:0086-519-85260699 FAX:0086-519-85260299

Installation Guide for GSUN POWER Photovoltaic module 2020V3.0

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Purpose of this guide

- This is guide contains information regarding the installation and safe handling of GSUNPOWER solar system Co.,Ltd, photovoltaic module (hereafter referred to as "module"). GSUNPOWER solar system Co.,Ltd. referred to as "GSUNPOWER".
- Installers must read and understand this guide prior to installation. For any questions, please contact our Global Quality & Customer Support department for further information. Installers should follow all safety precautions described in this guide as well as local codes when installing a module. §
- Before installing a solar photovoltaic system, installers should familiarize themselves with its mechanical and electrical requirements. Keep this guide in a safe place for future reference (care and maintenance) and in case of sale or disposal of the modules.

General safety §

- Modules that fall under this application class may be used in system operating at more than 50V DC or 240W, where general contact access is anticipated. The module is considered to be in compliance with IEC61215&61730 only when the modules mounted in the manner specified by the mounting instructions below.§
- A module with exposed conductive parts is considered to be in compliance with IEC61215&61730 only when it is electrically grounded in accordance with the instructions presented below and the requirements of the National Electrical Code.
- Installing solar photovoltaic systems requires specialized skills and knowledge. Installation should only be performed by qualified persons. §
- Installers should assume all risks of injury that might occur during installation, including, but not limited to, the risk of electric shock. §
- One single module may generate more than 30V DC when exposed to direct sunlight. Contact with a
 DC voltage of 30V or more is potentially hazardous. §
- Do not disconnect under load.
- Photovoltaic solar modules convert light energy to direct current electrical energy. They are designed



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for outdoor use. Modules can be ground mounted, mounted on rooftops, vehicles or boats. The proper design of support structures lies within responsibility of the system designers and installers. §

- Do not use mirrors or other magnifiers to concentrate sunlight onto the modules. §
- When installing the system, abide to all local, regional and national statutory regulations. Obtain a building permit if necessary.
- This product must be installed by a licensed electrician in accordance with the applicable electrical code (i.e. the NEC for the USA and CEC for Canada).
- The electrical characteristics are under standard test conditions (irradiance of 100 mW/cm2, AM 1.5 spectrum, and a cell temperature of 25°C (77°F)).
- Only use equipment, connectors, wiring and support frames suitable for solar electric systems.

Handling safety §

- Do not lift the module by grasping the module's junction box or electrical leads. §
- Do not stand or step on the module. §
- Do not drop the module or allow objects to fall on the module. §
- To avoid glass breakage, do not place any heavy objects on the module. §
- Be cautious when setting the module down on to a surface. §
- Inappropriate transport and installation may break the module. §
- Do not attempt to disassemble the modules, and do not remove any attached nameplates or components from the modules. §
- Do not apply paint or adhesive to the module top surface. §
- To avoid damage to the backsheet, do not scratch or hit the backsheet. §
- Do not drill holes in the frame. This may compromise the frame strength and cause corrosion of the frame.
- Do not scratch the anodized coating of the frame (except for grounding connection). It may cause corrosion of the frame or compromise the frame strength. §
- Be careful when setting the panel down onto a surface, particularly when placing it on a corner. §
- A panel with broken glass or torn backsheet cannot be repaired and must not be used since contact with any panel surface or the frame can cause a electric shock. §
- Work only under dry conditions, and use only dry tools. Do not handle panels when they are wet unless wearing appropriate protective equipment. §
- When storing uninstalled panels outdoors for any period of time, always cover the panels and ensure



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that the glass faces down to stop water from collecting inside the panel and causing damage to exposed connectors.

Installation safety §

- Any module without a frame (laminate) shall not be considered to comply with the requirements of IEC61215&61730 unless the module is mounted with hardware that has been tested and evaluated with the module under this standard or by a field Inspection certifying that the installed module complies with the requirements of IEC61215&61730.
- Never open electrical connections or unplug connectors while the circuit is under load. And do not disconnect during load connection for a removable connector. §
- Contact with electrically charged parts of the panels, such as terminals, can result in burns, sparks and lethal shock whether or not the panel is connected.
- Do not touch the PV module unnecessarily during installation. The glass surface and the frame may be hot; there is a risk of burns and electric shock. §
- Do not work in the rain, snow or in windy conditions. §
- Avoid exposing cables to direct sunlight in order to prevent their degradation. §
- Keep children well away from the system while transporting and installing mechanical and electrical components. §
- Do not expose the artifically sunlight to a module or panel. And completely cover the module with an opaque material during installation to prevent electricity from being generated. §
- Do not wear metallic rings, watchbands, ear, nose, lip rings or other metallic objects while installing or troubleshooting photovoltaic systems. §
- Use only insulated tools that are approved for working on electrical installations. §
- Follow the safety regulations for all other system components, including wires and cables, connectors, charging regulators, inverters, storage batteries, rechargeable batteries, etc. §
- Under normal outdoor conditions the current and voltage generated by the system will differ from those listed on the datasheet. Datasheet values are the values measured under standard test conditions. Accordingly, during system designing phase, current and short-circuit current should be multiplied by a factor of 1.25 to determine components ratings. §
- Only use connectors to connect modules to form a string, or connect to another device. Removing the



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connectors will make the warranty void.

Fire Safety §

■ The fire rating of this module is valid only when mounted in the manner specified in the

mechanical mounting instructions.

The fire rating of the module can be referred to UL790.

■ Consult your local authority for guidelines and requirements for building or structural fire safety.

■ Roof constructions and installations may affect the fire safety of a building; Improper installation may

create hazards in the event of a fire.

■ Use components such as ground fault circuit breakers and fuses as required by local authority. §

■ Do not use panels near equipment or in places where flammable gases may be generated.

Do not use non-integral module and panel are installed on a roof that has fire danger. If a non-integral

module and panel are installed on a roof that must has fire-resistant degree of class A.

The safe distance between the module and the roof we suggest is $20\sim30$ centimeters.

Product Identification

Each module has two labels providing the following information:

1. Nameplate: describes the product type; rated power, rated current, rated voltage, open circuit voltage,

short circuit current, all as measured under standard test conditions; weight, dimensions etc.; the maximum

system voltage of 1500 volts DC.

2. Barcode: each individual module has a unique serial number. The serial number has 18 digits. The first

is type, the second is poly or mono silicon, the third is factory, the fouth is cell size, the fifth and sixth is

pcs of cells, the seventh to tenth is year and month, the eleventh and thirteenth is batch number, the

fourteenth to eighteenth is number. Each module has only one barcode. It is permanently attached to the

interior of the module and is visible from the front of the module. This bar code is inserted prior to

laminating..

For example: GBP6672190707913596

Do not remove any labels. Removing a label will make the GSUNPOWER warranty void.



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Mechanical Installation

Selecting the location

- Select a suitable location for installing the modules.
- The suitable altitude for installing is below 2000 meters.
- The modules should be facing south in northern latitudes and north in southern latitudes.
- For detailed information on the best installation angle, refer to standard solar photovoltaic installation guides or consult a reputable solar installer or systems integrator. §
- The module should not be shaded at any time. §
- Do not use modules near equipment or in locations where flammable gases may be generated or collected.

General Installation §

- The module mounting structure must be made of durable, corrosion-resistant and UV-resistant material.
- In regions with heavy snowfall in winter, select the height of the mounting system so that the lowest edge of the module is not covered by snow for any length of time.
- In addition, ensure that the lowest portion of the module is placed high enough so that it is not shaded by plants or trees or damaged by flying sand. §
- Modules must be securely attached to the mounting structure. §
- Provide adequate ventilation under the modules in conformity to your local regulations. A minimum distance of 10 cm between the roof plane and the frame of the module is generally recommended.
- Always observe the instructions and safety precautions included with the module support frames. §
- Do not attempt to drill holes in the glass surface of the modules as this will void the warranty. §
- Do not drill additional mounting holes in the module frames of the modules as this will void the warranty.
- Before installing modules on a roof, ensure that the roof construction is suitable. In addition, any roof penetration required to mount the module must be properly sealed to prevent leaks. §
- When installing a module on a pole, choose a pole and module mounting structure that will withstand the anticipated winds for the area. §
- Dust building up on the surface of the module can impair with module performance. GSUNPOWER



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recommend installing the modules with a tilt angle of at least 10 degrees, making it easier for dust to be washed off by rain. §

- Observe the linear thermal expansion of the module frames(the recommended minimum distance between two modules is 2 cm).
- Always keep the backsheet of the panel free from foreign objects or structural elements, which could come into contact with the panel, especially when the panel is under mechanical load.
- Ensure panels are not subjected to wind or snow loads exceeding the maximum permissible loads, and are not subject to excessive forces due to the thermal expansion of the support structures: See the following paragraph for more detailed information.

Installation methods

- Common hardware items such as nuts, bolts, star washers, lock washers and the like have not been evaluated for electrical conductivity or for use as grounding devices and should be used only for maintaining mechanical connections and holding electrical grounding devices in the proper position for electrical conductivity. Such devices, where supplied with the module and evaluated through the requirements in UL 1703, may be used for grounding connections in accordance with the instructions provided with the module.
- We suggest each module be securely fastened at 8 points (14mm×9mm). Modules must be installed according to the following examples. Not mounting the modules according to these instructions may void the warranty. §
- For our modules, designed mechanical load of front face is 3600Pa and safety factor is 1.5; designed mechanical load of back face is 1600Pa and safety factor is 1.5.
- Module can be installed in both landscape and portrait modes.
- For best performance, separate laying of positive and negative cables wherever possible. Induced voltage surges in the DC main cable should be minimized by laying the positive and negative cables as close together as possible.
- Where this is not possible or not desirable, the inverter energy system should be connected to the distribution board located physically nearest to the inverter, and the main switchboard. And main switch for the switchboard, to which the inverter is connected, shall be a lockable switch.
- The modules must be properly secured to their support so that they can withstand live load conditions,



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including wind uplift, to the pressure they have been certified for. It is the installer's responsibility to insure that the clamps used to secure the modules are strong enough.

Attachment guidelines §

■ Screw Installation

Each PV module has 8 mounting holes (shown as drawing 1). The downward mechanical load resistance of module would be different according to the installation holes used (shown as table 1), Please use 8 of them to secure the modules to support structure. The module frame must be attached to a mounting rail using M8 corrosion-proof screws together with spring washers and flat washers in eight symmetrical locations on the PV module. The applied torque should be big enough to fix it steadily. The reference torque value for M8 screw is 16~20N*m.

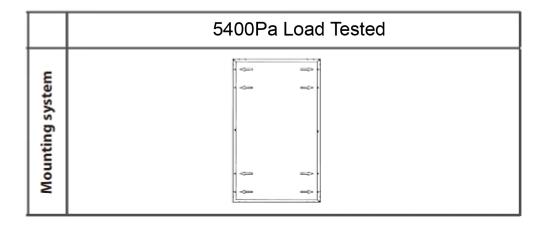
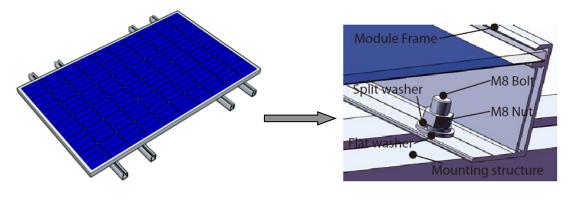


Table 1



Drawing 1



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■ Clamp Installation

The modules can be fixed on both the long and the short side of the module within the constraints shown in drawing 2,using a minimum of four clamps. The modules are built to withstand a downward force of up to 5400 Pa (550 kg/m2) or 2400 Pa (244 kg/m2) according to where they are clamped. Site-specific loads such as wind or snow which may exert forces in a different way need to be taken into consideration to ensure this limit is not exceeded for each respective mounting option.

A.For standard module with backsheet

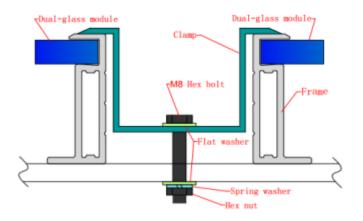
1.CLamp picture as below:

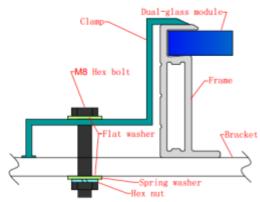


Figure 3 Double-side clamp



Figure 4 Single-side clamp



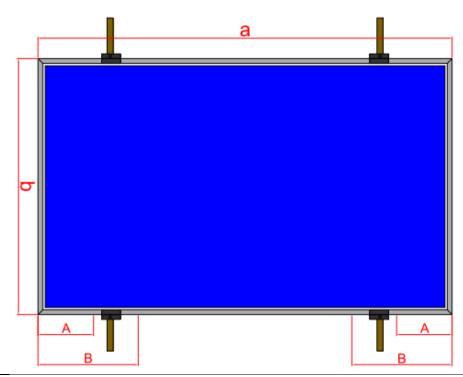




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2.Install module with clamps at longsides of frames

This Installation method is applicable to the series of PV modules as listed below:



Type 1	GSUN-×××-6PA, GSUN-×××-6PA-HV, GSUN-×××-6MA, GSUN-×××-6MA-HV
Type 2	GSUN-×××-6PB, GSUN-×××-6PB-HV, GSUN-×××-6MB, GSUN-×××-6MB-HV
Type 3	GSUN-×××-BPZ, GSUN-×××-BPZ-HV, GSUN-×××-BMZ, GSUN-×××-BMZ-HV
Type 4	GSUN-×××-BPA, GSUN-×××-BPA-HV, GSUN-×××-BMA, GSUN-×××-BMA-HV
Type 5	GSUN-×××-BPB, GSUN-×××-BPB-HV, GSUN-×××-BMB, GSUN-×××-BMB-HV
Type 6	GSUN-×××-BPC, GSUN-×××-BPC-HV, GSUN-×××-BMC, GSUN-×××-BMC-HV
Type 7	GSUN-×××-E01A, GSUN-×××-E01A-HV, GSUN-×××-E1A, GSUN-×××-E11A-HV
Type 8	GSUN-×××-E01B, GSUN-×××-E01B-HV, GSUN-×××-E11B, GSUN-×××-E11B-HV
Type 9	GSUN-×××-E6A, GSUN-×××-E6A-HV
Type 10	GSUN-×××-E6B, GSUN-×××-E6B-HV

NOTE: HV MODULES WITH 1500V, XXX: MODULE POWER

Table 2

The selection and installation of the clamps shall obey the requirement according to table 3(mounting area is between A and B). Otherwise the module may not satisfy the mechanical load



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and have the risk of broken.

module type	a(mm)	b(mm)	Clamp length	A(mm)	B(mm)	Loads (Pa)
Towns 1	1985/	992/1002	. 50	280	580	5400
Type1	1970/1956	992/1002	≥50mm	50	580	2400
Tupo2	1665/	992/1002	≥50mm	180	480	5400
Type2	1650/1640	332,1002	230MM	50	480	2400
Type3	2180	1002	> E0	300	600	5400
Турез	2100	1002	≥50mm	50	600	2400
	2115	1052	≥50mm	300	600	5400
Type4	1996/2015	992/1002	- 50	280	580	5400
	1990/2013	992/1002	≥50mm	50	580	2400
	1776	1052	≥50mm	200	500	5400
Type5	1674/1690	992/1002	≥50mm	180	480	5400
	1074/1090	992/1002		50	480	2400
Tunof	1852	1002	> F0	200	500	5400
Туреб	1032	1002	≥50mm	50	500	2400
Type7	4044	1040/1066	. 50	280	580	5400
турет	1941	1048/1066	≥50mm	50	580	2400
T = 0	1622	404044055	. 50	180	480	5400
Type8	1623	1048/1066	≥50mm	50	480	2400
T O	2442	1000	> F.O	300	600	5400
Type9	2110	1002	≥50mm	50	600	2400
T	1005	1000	≥50mm	200	500	5400
Type10	1806	1806 1002		50	500	2400

Table 3

B.For dual glass module without frame

The dual glass module without frame is designed for clamp installation. It need the clamps with rubber strips to fix on the bracket. Figure 1 and figure 2 show the structure of two kind of clamps.



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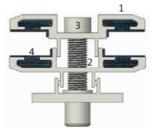




Figure 1 Double-side clamp

Figure 2 Single-side clamp

NO.	Name	Remark			
1	Aluminium alloy	6063-T5			
2	Spring				
3	Bolt	M8 stainless steel bolt			
4	Rubber strip	Ethylene Propylene Diene Monomer (EPDM)			

Table 1 Components of the clamp

This Installation method is applicable to the series of PV modules as listed below:

Type 1	GSUN-×××-6PB-DG, GSUN-×××-6MB-DG, GSUN-×××-6MB-BG
Type 2	GSUN-×××-6PA-DG, GSUN-×××-6MA-DG, GSUN-×××-6MA-BG
Type 3	GSUN-×××-BPB-DG, GSUN-×××-BMB-DG, GSUN-×××-BMB-BG
Type 4	GSUN-×××-BPA-DG, GSUN-×××-BMA-DG, GSUN-×××-BMA-BG

Table 2

The selection and installation of the clamps shall obey the requirement according to table 3. Otherwise the module may not satisfy the mechanical load and have the risk of broken.



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Туре	Loads(Pa)	Clamp Length	Installation Drawing
Type 1	+ 2400 - 2400	≥150mm	110
Type 2	+ 2400 - 2400	≥200mm	18
Type 3	+ 2400 - 2400	≥150mm	353 40 40
Type 4	+ 2400 - 2400	≥200mm	20

C.For dual glass module with frame

The dual glass module with frame is designed for clamp installation. It needs the clamps, bolts, nuts and washers to fix on the bracket(as shown in figure1,2,3,4). Sufficient torque should be applied to the bolts to ensure stable reinforcement. The reference torque value for M8 screw is 16~20N*M.



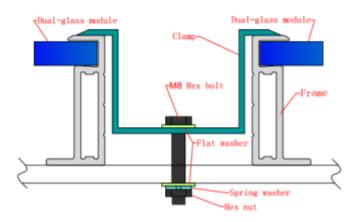
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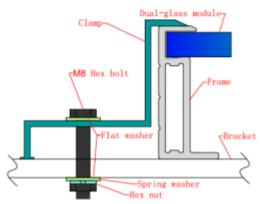


Figure 3 Double-side clamp



Figure 4 Single-side clamp





This Installation method is applicable to the series of PV modules as listed below :

Type 1	GSUN-×××-6PB-DG, GSUN-×××-6MB-DG, GSUN-×××-6MB-BG
Type 2	GSUN-×××-6PA-DG, GSUN-×××-6MA-DG, GSUN-×××-6MA-BG
Type 3	GSUN-×××-BPB-DG, GSUN-×××-BMB-DG, GSUN-×××-BMB-BG
Type 4	GSUN-×××-BPA-DG, GSUN-×××-BMA-DG, GSUN-×××-BMA-BG



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Table 2

The selection and installation of the clamps shall obey the requirement according to table 3. Otherwise the module may not satisfy the mechanical load and have the risk of broken.

Туре	Loads(Pa)	Clamp Length	Installation Drawing
Type 1	+ 5400 - 2400	≥50mm	
Type 2	+ 5400 - 2400	≥50mm	
Type 3	+ 5400 - 2400	≥50mm	
Type 4	+ 5400 - 2400	≥50mm	

Table 3



WARNING Electrical Hazard

This module produces electricity when exposed to light. Follow all applicable electrical safety precautions.

ONLY qualified personnel can install or perform maintenance work on these modules. BE AWARE of



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dangerous high DC voltage when connecting module. **DO NOT** damage or scratch the rear surface of the module. **DO NOT** handle or install module when they are wet.

General installation

- Any hardware used must be compatible with the mounting structure material to avoid galvanic corrosion
- It is not recommended to use modules with different configurations (grounding, wiring) in the same system.
- The module maximum system voltage is 1500 volts DC(For –HV module) and 1000 volts DC(For other module). For applications requiring a high operating voltage several modules can be connected in series to form a string of modules; The system voltage is then equal to the sum of the voltage of each module.
- For applications requiring high operating currents several strings of modules can be connected in parallel; the system current is then equal to the sum of the current of each string of modules.
- Our modules are supplied with connectors to be used for system electrical connections.
- The maximum number of series connected modules can calculated through this formal: 1500/(1.25*Voc). The recommended maximum parallel module configuration is 16 parallels. And the number of modules

have something to do with system design parameters such as current or power output.

- Please refer to local regulations to determine the system wires size, type and temperature.
- To prevent the cables and the connectors from overheating, the cross section of the cables and the capacity of the connectors must be selected to suit the maximum system short circuit current (The recommended cable cross section is 4mm² for a single module and if rated current of a connector is higher than 10A). Please note that the upper limit temperature of cable is 85°C, and that of the connector is 105°C. And all the cables diameter that been used for wiring must reach at least 4 mm².§
- The DC current generated by photovoltaic systems can be converted into AC and fed into a public grid. As local utilities' policies on connecting renewable energy systems to their grids vary from region to region. A qualified system designer or integrator should always be consulted. Building permits, inspections and approvals by the local utility are generally required.

Grounding §

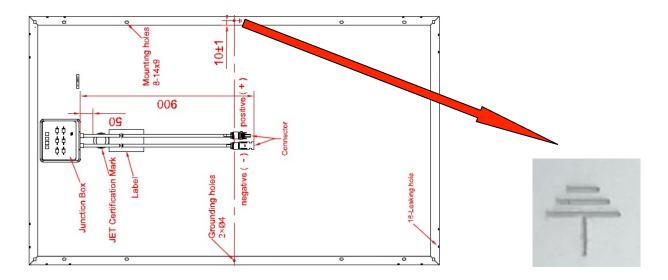
- Where common grounding hardware (nuts, bolts, star washers, spilt-ring lock washers, flat washers and the like) is used to attach a listed grounding/bonding device, the attachment must be made in conformance with the grounding device manufacturer's instructions."
- For grounding and bonding requirements, please refer to regional and national safety and electricity



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standards. If grounding is required, use a recommended connector type, or an equivalent, for the grounding wire.

■ If grounding is required, the grounding wire must be properly fastened to the module frame to assure adequate electrical connection.



For double glass module

Maintenance

- To ensure optimum module performance, GSUNPOWER recommends the following maintenance measures: §
- Clean the glass surface of the module when required. Always use clean water and a soft sponge or cloth for cleaning. A mild, non-abrasive cleaning agent may be used to remove stubborn dirt. §
- Check the electrical, grounding and mechanical connections every six months to verify that they are clean, secure, undamaged and free of corrosion. §
- If any problem arises, consult a professional for suggestions. §
- Caution: observe the maintenance instructions for all components used in the system, such as support frames, charging regulators, inverters, batteries etc.



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6. Dimension & Parameters

GSUN-XXX-6MA-HV/GSUN-XXX-6MA (XXX=330-380) Electrical Characteristics

Rated Power (Pmp)	330	335	340	345	350	355	360	365	370	375	380
	0~	0~	0~	0~	0~	0~	0~	0~	0~	0~	0~
Power Tolerance	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99
	W	W	W	W	W	W	W	W	W	W	W
Power Tolerance	±3%	$\pm 3\%$	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Maximum Power Voltage (Vmp)	37.3	37.5	37.7	37.9	38.1	38.3	38.5	38.7	38.9	39.1	39.4
Maximum Power Current (Imp)	8.85	8.94	9.02	9.11	9.19	9.27	9.36	9.44	9.52	9.60	9.65
Open Circuit Voltage (Voc)	46.1 ±2%	46.4 ±2%	46.6 ±2%	46.8 ±2%	47 ±2%	47.2 ±2%	47.4 ±2%	47.6 ±2%	47.8 ±2%	48 ±2%	48.3 ±2%
Short Circuit Current (Isc)	9.14 ±4%	9.23 ±4%	9.32 ±4%	9.43 ±4%	9.51 ±4%	9.61 ±4%	9.70 ±4%	9.78 ±4%	9.88 ±4%	9.96 ±4%	10.02 ±4%

Working Conditions	
Pmax Temperature Coefficient	-0.42 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω
Insulation Resistance	≥100M Ω

Mechanical Specifications						
External Dimensions	1966 (1970) x 992 x 50 mm					
	1985*1002*40mm					
Weight	24 /22.5 kg					
	Monocrystalline 156.75x156.75mm					
Solar Cells	158.75x158.75mm(72pcs)					
Front glass	3.2 mm tempered glass, low iron					
	Anodized/Electrophoretic aluminum					
Frame	aloy					
Junction Box	IP68					
Output Cables	4.0 mm2, symmetrical lengths 900mm					
Hailstone Impact Test	80 km/h for 25mm ice ball					



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GSUN-XXX-6MB-HV/GSUN-XXX-6MB (XXX=275-315) Electrical Characteristics

Rated Power (Pmp)	275	280	285	290	295	300	305	310	315
	0~	0~	0~	0~	0~	0~	0~	0~	0~
Power Tolerance	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99	+4.99
	W	W	W	W	W	W	W	W	W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Maximum Power	31.1	31.3	31.5	31.7	31.9	32.1	32.3	32.6	32.8
Voltage (Vmp)	31.1	31.3	31.5	31.7	31.9	32.1	32.3	32.0	32.0
Maximum Power	8.85	8.95	9.05	9.15	9.25	9.35	9.45	9.51	9.61
Current (Imp)	0.03	0.93	9.03	9.13	9.23	9.55	9.40	9.51	9.01
Open Circuit Voltage	38.7	38.9	39.1	39.3	39.5	39.7	39.9	40.2	40.4
(Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit Current	9.12	9.22	9.33	9.44	9.56	9.65	9.76	9.82	9.92
(Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%

Working Conditions	
Pmax Temperature Coefficient	-0.42 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥ 100M Ω

Mechanical Specifications							
External Dimensions 1650x 992 x 50 mm /1665*1002*35							
Weight	19.5 kg /18.5kg						
Solar Cells	Mono crystalline 156.75x156.75mm						
Solui cello	158.75x158.75mm(60pcs)						
Front glass	3.2 mm tempered glass, low iron						
	Anodized/Electrophoretic aluminum						
Frame	aloy						
Junction Box	IP68						
Output Cables	4.0 mm2, symmetrical lengths 900mm						
Hailstone Impact Test	80 km/h for 25mm ice ball						



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GSUN-XXX-6PA-HV/GSUN-XXX-6PA (XXX=300-350)

	l	1		l	1	1	1	1	1	1	
Rated Power											
(Pmp)	300	305	310	315	320	325	330	335	340	345	350
	0~	0~	0~	0~	0~	0~	0~	0~	0~	0~	0~
Power	+4.9	+4.9	+4.9	+4.9	+4.9	+4.9	+4.9	+4.9	+4.9	+4.9	+4.9
Tolerance	9W										
Power	±	±	±	±	±	±	±	±	±	±	±
Tolerance	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Open Circuit	44.7	45.0	45.2	45.3	45.5	45.7	45.9	46.2	46.4	46.5	46.7
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.68	8.73	8.80	8.87	8.96	9.03	9.12	9.20	9.30	9.41	9.50
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum											
Power	35.8	36.2	36.5	36.8	37.0	37.3	37.5	37.7	37.9	38.1	38.3
Voltage	33.6	30.2	30.5	30.0	37.0	37.3	37.5	37.7	37.9	30.1	30.3
(Vmp)											
Maximum											
Power	8.38	8.43	8.50	8.56	8.65	8.72	8.80	8.89	8.98	9.06	9.14
Current	0.30	0.43	0.30	0.30	0.00	0.72	0.00	0.09	0.90	9.00	9.14
(Imp)											

Working Conditions	
Pmax Temperature Coefficient	-0.42 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500V(UL
)
Maximum Series Fuse	15A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifica	ations
External Dimensions	1966 (1970) x 992 x 50 mm /1985*1002*40
Weight	24/22.5kg
Solar Cells	Polycrystalline 156.75x156.75mm
	158.75x158.75mm(72pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/Electrophoretic aluminum aloy
Junction Box	IP68
Output Cables	4.0 mm2, symmetrical lengths 900mm
Hailstone Impact	80 km/h for 25mm ice ball
Test	



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GSUN-XXX-6PB-HV/GSUN-XXX-6PB (XXX=250-290)

Rated Power									
(Pmp)	250	255	260	265	270	275	280	285	290
Power	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9
Tolerance	9W								
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance									
Open Circuit	37.3	37.5	37.7	37.9	38.1	38.3	38.5	38.7	38.9
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.61	8.70	8.78	8.89	8.99	9.08	9.18	9.27	9.37
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum									
Power Voltage	30.2	30.5	30.9	31.1	31.3	31.6	31.8	32.0	32.2
(Vmp)									
Maximum									
Power Current	8.28	8.37	8.42	8.53	8.63	8.71	8.81	8.91	9.01
(Imp)									

Working Conditions	
Pmax Temperature Coefficient	-0.42 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	15A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications						
External Dimensions	1650 x 992 x 50 mm/1665*1002*35mm					
Weight	19.5/18.5kg					
	Polycrystalline:156.75x156.75mm					
Solar Cells	158.75x158.75mm(60pcs)					
Front glass	3.2 mm tempered glass, low iron					
Frame	Anodized/Electrophoretic aluminum aloy					
Junction Box	IP68					
Output Cables	4.0 mm2, symmetrical lengths 900mm					
Hailstone Impact Test	80 km/h for 25mm ice ball					



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GSUN-XXX-E01A-HV/GSUN-XXX-E01A (XXX=365-410)

Rated Power										
(Pmp)	365	370	375	380	385	390	395	400	405	410
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W	99W	99W	99W	99W
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance										
Open Circuit	43.9	44.10	44.20	44.30	44.50	44.70	44.9	45.10	45.30	45.50
Voltage (Voc)	±2%	±2%	±2%	±2%	$\pm 2\%$	±2%	±2%	±2%	±2%	±2%
Short Circuit	10.73	10.82	10.91	10.99	11.08	11.17	11.25	11.34	11.42	11.51
Current (Isc)	±4%	±4%	±4%	±4%	$\pm 4\%$	±4%	±4%	±4%	±4%	±4%
Maximum										
Power Voltage	35.8	36.00	36.20	36.40	36.60	36.80	37.00	37.20	37.40	37.60
(Vmp)										
Maximum										
Power Current	10.20	10.28	10.36	10.44	10.52	10.60	10.68	10.76	10.83	10.91
(Imp)										

Working Conditions	Γ
Pmax Temperature Coefficient	-0.40 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications						
Wechanical Specifications						
External Dimensions	1941 x 1048 x50 mm					
Weight	23.5 kg					
Solar Cells	Monocrystalline:156.75x156.75mm(72p					
	cs)					
Front glass	3.2 mm tempered glass, low iron					
	Anodized/Electrophoretic aluminum					
Frame	aloy					
Junction Box	IP67					
Output Cables	4.0 mm2, cable lengths 1000mm					
Hailstone Impact Test	80 km/h for 25mm ice ball					



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GSUN-XXX-E01B-HV/GSUN-XXX-E01B (XXX=305-340)

Rated Power								
(Pmp)	305	310	315	320	325	330	335	340
	0~+4.99	0~+4.99	0~+4.99	0~+4.99	0~+4.99	0~+4.99	0~+4.99	0~+4.99
Power Tolerance	W	W	W	W	W	W	W	W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit	43.8	44.05	44.30	44.45	44.70	44.90	45.15	45.35
Voltage (Voc)	±2%	±2%	$\pm 2\%$	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.97	9.05	9.14	9.23	9.31	9.40	9.49	9.58
Current (Isc)	±4%	±4%	$\pm 4\%$	±4%	±4%	±4%	±4%	$\pm 4\%$
Maximum Power	35.8	36.00	36.20	36.40	36.60	36.8	37.05	37.30
Voltage (Vmp)								
Maximum Power Current (Imp)	8.52	8.62	8.71	8.80	8.88	8.97	9.05	9.12

Working Conditions								
Pmax Temperature Coefficient	-0.40 %/°C							
Voc Temperature Coefficient	-0.32 %/°C							
Isc Temperature Coefficient	+0.05 %/°C							
Operating Temperature	-40~+85 °C							
Nominal Operating Cell Temperature (NOCT)	45±2 °C							
Maximum System Voltage	1000V(UL)							
Maximum Series Fuse	20A							
Grounding conductivity	<0.1Ω							
PV module classification	Class II							
Insulation Resistance	≥100M Ω							

Mechanical Specifications							
External Dimensions	1623 x 1048 x40 mm						
Weight	19.0 kg						
Solar Cells	Monocrystalline:156.75x156.75mm(72p						
	cs)						
Front glass	3.2 mm tempered glass, low iron						
Frame	Anodized/Electrophoretic aluminum aloy						
Junction Box	IP67						
Output Cables	4.0 mm2, cable lengths 1000mm						
Hailstone Impact Test	80 km/h for 25mm ice ball						



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GSUN-XXX-E11A-HV/GSUN-XXX-E11A (XXX=340-380)

Rated Power									
(Pmp)	340	345	350	355	360	365	370	375	380
Power	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9
Tolerance	9W								
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance									
Open Circuit	42.70	42.90	43.10	43.30	43.60	43.90	44.20	44.50	44.80
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	10.31	10.40	10.49	10.58	10.64	10.72	10.78	10.85	10.91
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum									
Power Voltage	35.15	35.35	35.55	35.80	36.00	36.20	36.45	36.70	36.90
(Vmp)									
Maximum									
Power Current	9.68	9.76	9.85	9.92	10.00	10.09	10.15	10.22	10.30
(Imp)									

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications							
External Dimensions	1941 x 1048 x50 mm						
Weight	23.5 kg						
Solar Cells	Polycrystalline:156.75x156.75mm(72pcs						
Front glass	3.2 mm tempered glass, low iron						
Frame	Anodized/Electrophoretic aluminum aloy						
Junction Box	IP67						
Output Cables	4.0 mm2, cable lengths 1000mm						
Hailstone Impact Test	80 km/h for 25mm ice ball						



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GSUN-XXX-E11B-HV/GSUN-XXX-E11B (*XXX*=285-315)

Rated Power (Pmp)	285	290	295	300	305	310	315	
	0~+4.99	0~+4.99	0~+4.99	0~+4.99	0~+4.99	0~+4.99	0~+4.99	
Power Tolerance	W	W	W	W	W	W	W	
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%	
Open Circuit Voltage	42.90	43.15	43.35	43.55	43.80	44.05	44.25	
(Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	
Short Circuit Current	8.61	8.69	8.79	8.88	8.97	9.06	9.15	
(Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	
Maximum Power Voltage (Vmp)	35.3	35.55	35.75	35.95	36.2	36.45	36.65	
Maximum Power Current (Imp)	8.08	8.16	8.26	8.35	8.43	8.51	8.60	

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications							
External Dimensions	1623 x 1048 x40 mm						
Weight	19.0 kg						
Solar Cells	Polycrystalline:156.75x156.75mm(72pcs						
Front glass	3.2 mm tempered glass, low iron						
Frame	Anodized/Electrophoretic aluminum aloy						
Junction Box	IP67						
Output Cables	4.0 mm2, cable lengths 1000mm						
Hailstone Impact Test	80 km/h for 25mm ice ball						



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GSUN-XXX-BMA-HV/GSUN-XXX-BMA (XXX=330-440)

	ZULL BIMIT HV/ GSCIV ZULL BIMI											
Rated Power (Pmp)	330	335	340	345	350	355	360	365	370	375	380	385
Power	0~+4.	0~+4	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	.99W	99W	99W	99W	99W	99W	99W	99W	99W	99W	99W
Power Tolerance	±3%	± 3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit Voltage (Voc)	45.4 ±2%	45.7 ± 2%	46.0± 2%	46.3± 2%	46.6± 2%	46.9± 2%	47.2± 2%	47.5± 2%	47.8± 2%	48.1± 2%	48.3± 2%	48.5± 2%
Short Circuit Current (Isc)	9.39 ±4%	9.45 ± 4%	9.52± 4%	9.58± 4%	9.64± 4%	9.70± 4%	9.76± 4%	9.83± 4%	9.89± 4%	9.95± 4%	10.01 ±4%	10.17 ±4%
Maximum Power Voltage (Vmp)	37.8	38.1	38.4	38.7	39	39.3	39.6	39.9	40.2	40.5	40.8	41.0
Maximum Power Current (Imp)	8.74	8.80	8.86	8.92	8.98	9.03	9.09	9.15	9.20	9.26	9.32	9.39
Rated Power (Pmp)	390	395	400	405	410	415	420	425	430	435	440	445
Power	0~+4.	0~+4	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	.99W	99W	99W	99W	99W	99W	99W	99W	99W	99W	99W
Power Tolerance	±3%	± 3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit Voltage (Voc)	48.7± 2%	48.9 ± 2%	49.1± 2%	49.4± 2%	49.6± 2%	49.8± 2%	48.9± 2%	49.2± 2%	49.4 ±2%	49.6 ±2%	49.7 ±2%	49.9 ±2%
Short Circuit Current (Isc)	10.26 ±4%	10.2 6± 4%	10.33 ±4%	10.15 ±4%	10.23 ±4%	10.3± 4%	10.97 ±4%	11.04 ±4%	11.11 ±4%	11.18 ±4%	11.27 ±4%	11.34 ±4%
Maximum Power Voltage (Vmp)	41.2	41.4	41.6	41.9	42.1	42.3	40.7	40.9	41.1	41.3	41.4	41.6
Maximum Power Current (Imp)	9.47	9.55	9.62	9.67	9.74	9.82	10.32	10.40	10.47	10.54	10.63	10.70



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Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons					
External Dimensions	1970 x 992x40 /2015*1002*40mm					
Weight	21.5/23.0 kg					
	Monocrystalline:156.75x156.75mm					
Solar Cells	158.75*158.75mm(72pcs)					
Front glass	3.2 mm tempered glass, low iron					
Frame	Anodized/Electrophoretic aluminum aloy					
Junction Box	IP67					
Output Cables	4.0 mm2, cable lengths 1000mm					
Hailstone Impact Test	80 km/h for 25mm ice ball					



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GSUN-XXX-BMB-HV/GSUN-XXX-BMB (XXX=275-370)

	1	1	1	1				1	1	1	1	_
Rated Power												
(Pmp)	275	280	285	290	295	300	305	310	315	320	325	330
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W											
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance												
Open Circuit	37.7	38	38.3	38.6	38.9	39.2	39.5	39.8	40.1	40.4	40.6	40.8
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	9.4	9.48	9.57	9.65	9.74	9.82	9.92	9.97	10.04	10.12	10.21	10.31
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum												
Power Voltage	31.7	32	32.2	32.5	32.7	33	33.2	33.5	33.7	34.0	34.2	34.4
(Vmp)												
Maximum												
Power Current	8.68	8.75	8.86	8.93	9.03	9.10	9.19	9.26	9.35	9.42	9.51	9.60
(Imp)												
Rated Power	360	365	370									
(Pmp)	300	303	370									
	0~+4.	0~+4.	0~+4.									
Power Tolerance	99W	99W	99W									
Power Tolerance	±3%	±3%	±3%									
Open Circuit	41.2	41.4	41.6									
Voltage (Voc)	±2%	±2%	±2%									
Short Circuit	11.16	11.26	11.34									
Current (Isc)	±4%	±4%	±4%									
Maximum												
Power Voltage	242	244	246									
(Vmp)	34.2	34.4	34.6									
Maximum												
Power Current	10.52	10.00	10.70									
(Imp)	10.53	10.62	10.70									



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Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications							
External Dimensions	1650 x 992x40 /1690*1002*35mm						
Weight	18 /19kg						
Solar Cells	Monocrystalline:156.75x156.75mm						
Solar Cells	158.75*158.75mm(60pcs)						
Front glass	3.2 mm tempered glass, low iron						
Frame	Anodized/Electrophoretic aluminum aloy						
Junction Box	IP67						
Output Cables	4.0 mm2, cable lengths 1000mm						
Hailstone Impact Test	80 km/h for 25mm ice ball						



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GSUN-XXX-BMC-HV/GSUN-XXX-BMC (XXX=305-380)

Rated Power													
(Pmp)	305	310	315	320	325	330	335	340	345	350	355	360	365
	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+4
	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	.99
Power Tolerance	W	W	W	W	W	W	W	W	W	W	W	W	W
	<u>±</u>	±	±	±	±	±	±	±	<u>±</u>	±	±	<u>±</u>	±
Power Tolerance	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
	41.7	42	42.3	42.6	42.9	43.2	43.5	43.8	44.1	43.8	44.0	44.2	44.4
Open Circuit	土	±	±	±	土	土	土	±	土	±	土	土	土
Voltage (Voc)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
	9.26	9.33	9.38	9.44	9.5	9.56	9.62	9.69	9.75	9.98	10.0	10.1	10.2
Short Circuit	9.20 ±	±	±	9.44 ±	±	±	9.02 ±	±	9.75 ±	±	7	5	3
Current (Isc)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	±	<u>±</u>	<u>±</u>
	4 /0	4 /0	4 /0	4 /0	4 /0	4 /0	4 /0	4 /0	4 /0	4 /0	4%	4%	4%
Maximum Power	34.8	35.1	35.4	35.7	36	36.3	36.6	36.9	37.2	37.0	37.2	37.4	37.6
Voltage (Vmp)	34.0	33.1	33.4	33.7	30	30.3	30.0	30.9	37.2	37.0	31.2	37.4	37.0
Maximum Power	8.77	8.84	8.90	8.97	9.03	9.10	9.16	9.22	9.28	9.46	9.55	9.63	9.71
Current (Imp)	0.77	0.04	0.90	0.91	9.03	9.10	9.10	9.22	9.20	3.40	9.55	9.03	9.71
Rated Power	370	375	380										
(Pmp)	370	373	300										
	0~+	0~+	0~+										
	4.99	4.99	4.99										
Power Tolerance	W	W	W										
	土	±	土										
Power Tolerance	3%	3%	3%										
	44.5	44.7	44.9										
Open Circuit	±	±	±										
Voltage (Voc)	2%	2%	2%										
	10.3	10.3	10.4										
	1	9	8										
Short Circuit	±	土	土										
Current (Isc)	4%	4%	4%										
Maximum Power	37.7	37.9	38.1										
Voltage (Vmp)	07.7	07.5	00.1										
Maximum Power	9.82	9.90	9.98										
Current (Imp)	3.02	3.90	3.30										



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Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications								
External Dimensions	1852x 1002x35mm							
Weight	20 kg							
Solar Cells	Monocrystalline:156.75x156.75mm							
Solar Cells	158.75*158.75mm(66pcs)							
Front glass	3.2 mm tempered glass, low iron							
	Anodized/Electrophoretic aluminum							
Frame	aloy							
Junction Box	IP67							
Output Cables	4.0 mm2, cable lengths 1000mm							
Hailstone Impact Test	80 km/h for 25mm ice ball							



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GSUN-XXX-BPA-HV/GSUN-XXX-BPA (XXX=310-355)

Rated Power										
(Pmp)	310	315	320	325	330	335	340	345	350	355
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W									
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance										
Open Circuit	45	45.2	45.5	45.7	46	46.2	46.5	46.7	46.9	47.1
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.84	8.91	8.97	9.06	9.11	9.19	9.24	9.32	9.40	9.47
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum										
Power Voltage	37.3	37.5	37.8	38.0	38.3	38.5	38.8	39.0	39.3	39.6
(Vmp)										
Maximum										
Power Current	8.32	8.40	8.47	8.56	8.62	8.71	8.77	8.85	8.91	8.97
(Imp)										

Working Conditions								
Pmax Temperature Coefficient	-0.41 %/°C							
Voc Temperature Coefficient	-0.32 %/°C							
Isc Temperature Coefficient	+0.05 %/°C							
Operating Temperature	-40~+85 °C							
Nominal Operating Cell	45±2 °C							
Temperature (NOCT)								
Maximum System Voltage	1000V/1500V(UL)							
Maximum Series Fuse	20A							
Grounding conductivity	<0.1Ω							
PV module classification	Class II							
Insulation Resistance	≥100M Ω							

Mechanical Specifications								
External Dimensions	1970 x 992x40 /2015*1002*40mm							
Weight	21.5/23.0 kg							
	Polycrystalline:156.75x156.75mm							
Solar Cells	158.75*158.75mm(72pcs)							
Front glass	3.2 mm tempered glass, low iron							
Frame	Anodized/Electrophoretic aluminum aloy							
Junction Box	IP67							
Output Cables	4.0 mm2, cable lengths 1000mm							
Hailstone Impact Test	80 km/h for 25mm ice ball							



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GSUN-XXX-BPB-HV/GSUN-XXX-BPB (XXX=255-295)

Rated Power									
(Pmp)	255	260	265	270	275	280	285	290	295
Power	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9	0~+4.9
Tolerance	9W								
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance									
Open Circuit	37	37.2	37.5	37.7	38	38.2	38.5	38.8	39.1
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.79	8.96	9.03	9.08	9.14	9.24	9.32	9.39	9.47
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum									
Power Voltage	30.8	31	31.3	31.5	31.8	32	32.3	32.6	32.9
(Vmp)									
Maximum									
Power Current	8.28	8.39	8.47	8.58	8.65	8.75	8.83	8.90	8.97
(Imp)									

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications							
External Dimensions	1650 x 992x40 mm/1690*1002*35mm						
Weight	18.5 kg /19.0kg						
	Polycrystalline:156.75x156.75mm						
Solar Cells	158.75*158.75mm(60pcs)						
Front glass	3.2 mm tempered glass, low iron						
Frame	Anodized/Electrophoretic aluminum						
Trume	aloy						
Junction Box	IP67						
Output Cables	4.0 mm2, cable lengths 1000mm						
Hailstone Impact Test	80 km/h for 25mm ice ball						



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GSUN-XXX-BPC-HV/GSUN-XXX-BPC (XXX=280-325)

Rated Power										
(Pmp)	280	285	290	295	300	305	310	315	320	325
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W									
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance										
Open Circuit	40.7	40.9	41.2	41.4	41.7	41.9	42.2	42.4	42.7	42.9
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.80	8.89	8.97	9.05	9.11	9.19	9.25	9.34	9.40	9.47
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum										
Power Voltage	33.9	34.1	34.4	34.6	34.9	35.1	35.4	35.6	35.9	36.1
(Vmp)										
Maximum										
Power Current	8.26	8.36	8.44	8.53	8.60	8.69	8.76	8.85	8.92	9.01
(Imp)										

Working Conditions				
Pmax Temperature Coefficient	-0.41 %/°C			
Voc Temperature Coefficient	-0.32 %/°C			
Isc Temperature Coefficient	+0.05 %/°C			
Operating Temperature	-40~+85 °C			
Nominal Operating Cell Temperature (NOCT)	45±2 °C			
Maximum System Voltage	1000V/1500V(UL)			
Maximum Series Fuse	20A			
Grounding conductivity	<0.1Ω			
PV module classification	Class II			
Insulation Resistance	≥100M Ω			

Mechanical Specifications					
External Dimensions	1810 x 992x40 mm				
Weight	20 kg				
	Polycrystalline:156.75x156.75mm				
Solar Cells	158.75*158.75mm(66pcs)				
Front glass	3.2 mm tempered glass, low iron				
Frame	Anodized/Electrophoretic aluminum aloy				
Junction Box	IP67				
Output Cables	4.0 mm2, cable lengths 1000mm				
Hailstone Impact Test	80 km/h for 25mm ice ball				



Current (Isc)

Maximum Power

Voltage (Vmp)

Maximum Power

Current (Imp)

 $\pm 4\%$

40.3

9.56

 $\pm 4\%$

40.5

9.63

Jiangsu Guoyang Photoelectric Technology Co.,Ltd

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.GSUN-xxx-6MA-BG (xxx=350-395) Electrical Characteristics

Rated Power (Pmp)	350	355	360	365	370	375	380
Power Tolerance	0~+4.99 W	0~+4.99 W	0~+4.99 W	0~+4.99W	0~+4.99W	0~+4.99W	0~+4.99W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit Voltage (Voc)	47.5±2%	47.7±2%	47.9 ±2%	48.1±2%	48.3±2%	48.5±2%	48.7±2%
Short Circuit	9.43	9.52	9.61	9.69	9.77	9.86	9.94
Current (Isc)	\pm 4%	\pm 4%	\pm 4%	\pm 4%	\pm 4%	\pm 4%	\pm 4%
Maximum Power Voltage (Vmp)	38.9	39.1	39.3	39.5	39.7	39.9	40. 1
Maximum Power Current (Imp)	9	9.08	9.17	9.24	9.32	9.4	9. 48
Rated Power (Pmp)	385	390	395				
Power Tolerance	0~+4.99 W	0~+4.99 W	0~+4.99 W				
Power Tolerance	±3%	±3%	±3%				
Open Circuit Voltage (Voc)	48.8±2%	49.0±2%	49.2±2%				
Short Circuit	10.01	10.08	10.16				

 $\pm 4\%$

40.7

9.71



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Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000V/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons		
External Dimensions	1980 x 992x5.5 mm/2004*1002*5.5mm		
Weight	22.5/23 kg		
Solar Cells	Polycrystalline:156.75x156.75mm		
Joial Cells	158.75*158.75(72pcs)		
Front glass	3.2 mm tempered glass, low iron		
Frame	Anodized/Electrophoretic aluminum aloy		
Junction Box	IP67		
Output Cables	4.0 mm2, cable lengths 1000mm		
Hailstone Impact Test	80 km/h for 25mm ice ball		



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GSUN-xxx-6MB-BG (xxx=295-325)

Rated Power (Pmp)	295	300	305	310	315	320	325
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W	99W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit	39.7	39.9	40.1	40.3	40.5	40.7	40.9±
Voltage (Voc)	$\pm 2\%$	±2%	2%				
Short Circuit	9.51	9.62	9.72	9.81	9.89	9.97	10.05
Current (Isc)	$\pm 4\%$	±4%	\pm 4%				
Maximum Power Voltage (Vmp)	32.4	32.6	32.8	33.0	33.2	33.4	33.6
Maximum Power Current (Imp)	9.11	9.21	9.30	9.40	9.49	9.58	9.68

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500
	V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons			
External Dimensions	1658× 992 × 5.5 mm/1684*1002*5.5mm			
Weight	19 kg /19.5			
	Polycrystalline:156.75x156.75mm			
Solar Cells	158.75*158.75(60pcs)			
Front glass	3.2 mm tempered glass, low iron			
Frame	Anodized/Electrophoretic aluminum aloy			
Junction Box	IP67			
Output Cables	4.0 mm2, cable lengths 1000mm			
Hailstone Impact Test	80 km/h for 25mm ice ball			



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.GSUN-xxx-6MA-DG (xxx=350-395)

Rated Power (Pmp)	350	355	360	365	370	375	380	385	390	395
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W	99W	99W	99W	99W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit	47.5	47.7	48.1	48.2	48.4	48.6	48.8	49.1	49.4	49.6
Voltage (Voc)	±2%	±2%	±2%	±2%	$\pm 2\%$	±2%	±2%	±2%	$\pm 2\%$	$\pm 2\%$
Short Circuit	9.42	9.45	9.48	9.54	9.62	9.71	9.79	9.83	9.88	9.96
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	$\pm 4\%$
Maximum										
Power Voltage	38.9	39.1	39.3	39.6	39.8	40.0	40.2	40.5	40.8	41.0
(Vmp)										
Maximum Power Current	9.00	9.08	9.17	9.22	9.30	9.38	9.46	9.51	9.56	9.64
(Imp)										

Working Conditions	Г
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000V/1500
	V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons		
External Dimensions	1980 x 992x5.5 mm/2004*1002*5.5mm		
Weight	22.5/23.0 kg		
	Polycrystalline:156.75x156.75mm		
Solar Cells	Tells 158.75*158.75(72pcs)		
Front glass	3.2 mm tempered glass, low iron		
Frame	Anodized/Electrophoretic aluminum		
Traine	aloy		
Junction Box	IP67		
Output Cables	4.0 mm2, cable lengths 1000mm		
Hailstone Impact Test	80 km/h for 25mm ice ball		



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GSUN-xxx-6MB-DG (xxx=295-310)

Rated Power (Pmp)	295	300	305	310	315	320	325
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W	99W
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance					⊥3%	⊥3%	⊥3%
Open Circuit	39.7	39.9	40.1	40.4	40.7	40.9	41.2
Voltage (Voc)	±2%	±2%	±2%	±2%	$\pm 2\%$	±2%	±2%
Short Circuit	9.42	9.52	9.61	9.69	9.76	9.85	9.92
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum							
Power Voltage	32.5	9.52	9.61	9.69	33.5	33.7	34.0
(Vmp)							
Maximum							
Power Current	9.08	300	305	310	9.41	9.50	9.56
(Imp)							

Working Conditions	Г
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000v/1500
	V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons
External Dimensions	1658× 992 × 5.5/1684*1002*5.5 mm
Weight	19 kg /19.5kg
	Polycrystalline:156.75x156.75mm
Solar Cells	158.75*158.75mm(60pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/Electrophoretic aluminum
Landin Barri	aloy
Junction Box	IP67
Output Cables	4.0 mm2, cable lengths 1000mm
Hailstone Impact Test	80 km/h for 25mm ice ball



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GSUN-xxx-6PA-DG (xxx=315-340)

Rated Power						
(Pmp)	315	320	325	330	335	340
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W
Power	±3%	±3%	±3%	±3%	$\pm 3\%$	±3%
Tolerance						
Open Circuit	46.2	46.4	46.7	46.9	47.1	47.3
Voltage (Voc)	±2%	±2%	±2%	±2%	$\pm 2\%$	±2%
Short Circuit	8.70	8.80	8.87	9.00	9.05	9.20
Current (Isc)	±4%	±4%	±4%	±4%	$\pm 4\%$	±4%
Maximum						
Power Voltage	37.5	37.7	38.0	38.2	38.4	38.6
(Vmp)						
Maximum						
Power Current	8.40	8.49	8.56	8.65	8.73	8.81
(Imp)						

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons
External Dimensions	1980 x 992x5.5/2004*1002*5.5 mm
Weight	22.5/23.0 kg
	Polycrystalline:156.75x156.75mm
Solar Cells	158.75*158.75mm(72pcs)
Front glass	3.2 mm tempered glass, low iron
	Anodized/Electrophoretic aluminum
Frame	aloy
Junction Box	IP67
Output Cables	4.0 mm2, cable lengths 1000mm
Hailstone Impact Test	80 km/h for 25mm ice ball



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GSUN-xxx-6PB-DG (xxx=265-280)

Rated Power					
(Pmp)	265	270	275	280	
Power	0~+4.	0~+4.	0~+4.	0~+4.	
Tolerance	99W	99W	99W	99W	
Power	±3%	±3%	±3%	±3%	
Tolerance					
Open Circuit	38.6	38.9	39.2	39.5	
Voltage (Voc)	±2%	±2%	±2%	±2%	
Short Circuit	8.79	8.87	8.96	9.06	
Current (Isc)	±4%	±4%	±4%	±4%	
Maximum					
Power Voltage	31.3	31.6	31.8	32.1	
(Vmp)					
Maximum					
Power Current	8.56	8.65	8.74	8.83	
(Imp)					

Working Conditions	
Pmax Temperature	-0.41 %/°C
Coefficient	
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons			
External Dimensions	1658× 992 × 5.5/1684*1002*5.5 mm			
Weight	19/19.5 kg			
	Polycrystalline:156.75x156.75mm			
Solar Cells	158.75*158.75mm(60pcs)			
Front glass	3.2 mm tempered glass, low iron			
Frame	Anodized/Electrophoretic aluminum aloy			
Junction Box	IP67			
Output Cables	4.0 mm2, cable lengths 1000mm			
Hailstone Impact Test	80 km/h for 25mm ice ball			



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GSUN-xxx-BMA-DG (xxx=350-410)

Rated Power													
(Pmp)	350	355	360	365	370	375	380	385	390	395	400	405	410
	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+
	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99
Power Tolerance	W	W	W	W	W	W	W	W	W	W	W	W	W
	±	<u>±</u>	土	±	土	±	土	土	±	±	土	±	土
Power Tolerance	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
	47.2	47.5	47.8	48.0	48.3	48.5	48.7	48.9	49.1	49.3	49.5	49.7	49.9
Open Circuit	土	土	土	\pm	土	土	土	土	土	\pm	土	土	\pm
Voltage (Voc)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Chart Circuit	9.38	9.44	9.49	9.58	9.64	9.73	9.81	9.88	9.96	10.0	10.1	10.1	10.2
Short Circuit	土	土	土	\pm	土	土	土	土	土	4 ±	2 ±	9 ±	6 ±
Current (Isc)	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%	4%
Maximum Power	20.4	39.7	40.0	40.2	40 E	40.7	40.9	44.4					
Voltage (Vmp)	39.4	39.7	40.0	40.2	40.5	40.7	40.9	41.1	41.3	41.5	41.7	41.9	42.1
Maximum Power	8.89	9.05	0.00	0.00	0.14	0.22	0.20	0.27					
Current (Imp)	0.09	8.95	9.00	9.08	9.14	9.22	9.30	9.37	9.45	9.52	9.60	9.67	9.74

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons
External Dimensions	2018*998*30/2045*1008*30 mm
Weight	25.5/26.5 kg
	Polycrystalline:156.75x156.75mm
Solar Cells	158.75*158.75(72pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/Electrophoretic aluminum aloy
Junction Box	IP67
Output Cables	4.0 mm2, cable lengths 1000mm
Hailstone Impact Test	80 km/h for 25mm ice ball



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GSUN-xxx-BMB-DG (xxx=290-340)

Rated Power											
(Pmp)	290	295	300	305	310	315	320	325	330	335	340
	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+	0~+
	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99	4.99
Power Tolerance	W	W	W	W	W	W	W	W	W	W	W
	±	±	±	±	土	±	±	±	±	±	±
Power Tolerance	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
	39.0	39.3	39.6	39.9	40.2	40.5	40.7	40.9	41.1	41.3	41.4
Open Circuit	土	土	土	土	土	土	±	土	土	土	±
Voltage (Voc)	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
Short Circuit Current (Isc)	9.39 ± 4%	9.46 ± 4%	9.54 ± 4%	9.61 ± 4%	9.68 ± 4%	9.75 ± 4%	9.84 ± 4%	9.93 ± 4%	10.0 2 ± 4%	10.1 ± 4%	10.2 2625 ± 4%
Maximum Power Voltage (Vmp)	32.6	32.9	33.2	33.5	33.8	34.1	34.3	34.5	34.7	34.9	35.0
Maximum Power Current (Imp)	8.90	8.97	9.04	9.11	9.18	9.24	9.33	9.43	9.52	9.60	9.72

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons			
External Dimensions	1696*998*30/1720*1008*30 mm			
Weight	22.0/22.5 kg			
Solar Cells	Monocrystalline:156.75x156.75mm			
Solai Celis	158.75*158.75mm(60pcs)			
Front glass	3.2 mm tempered glass, low iron			
Frame	Anodized/Electrophoretic aluminum aloy			
Junction Box	IP67			
Output Cables	4.0 mm2, cable lengths 1000mm			
Hailstone Impact Test	80 km/h for 25mm ice ball			



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GSUN-xxx-BMC-DG (xxx=320-350)

Rated Power							
(Pmp)	320	325	330	335	340	345	350
	0~+	0~+	0~+	0~+	0~+	0~+	0~+
Power	4.99	4.99	4.99	4.99	4.99	4.99	4.99
Tolerance	W	W	W	W	W	W	W
Power	±	±	±	±	±	±	±
Tolerance	3%	3%	3%	3%	3%	3%	3%
	43.2	43.4	43.6	43.8	44.1	44.3	44.5
Open Circuit	±	±	\pm	土	土	±	±
Voltage (Voc)	2%	2%	2%	2%	2%	2%	2%
Short Circuit	9.36	9.46	9.55	9.63	9.70	9.79	9.88
	土	±	\pm	土	土	±	\pm
Current (Isc)	4%	4%	4%	4%	4%	4%	4%
Maximum							
Power Voltage	36.1	36.3	36.5	36.7	37.0	37.2	37.4
(Vmp)							
Maximum							
Power Current	8.87	8.96	9.05	9.13	9.19	9.28	9.36
(Imp)							

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications						
External Dimensions	1884*1008*30mm					
Weight	24.5kg					
	Monocrystalline:156.75x156.75mm					
Solar Cells	158.75*158.75mm(60pcs)					
Front glass	3.2 mm tempered glass, low iron					
Frame	Anodized/Electrophoretic aluminum					
Frame	aloy					
Junction Box	IP67					
Output Cables	4.0 mm2, cable lengths 1000mm					
Hailstone Impact Test	80 km/h for 25mm ice ball					



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GSUN-xxx-BPA-DG (xxx=315-345)

Rated Power							
(Pmp)	315	320	325	330	335	340	345
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W						
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance							
Open Circuit	45.5	45.7	46.0	46.2	46.5	46.7	46.9
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.80	8.89	8.95	9.04	9.11	9.19	9.27
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum							
Power Voltage	37.8	38.0	38.3	38.5	38.8	39.0	39.3
(Vmp)							
Maximum							
Power Current	8.34	8.43	8.49	8.58	8.64	8.72	8.78
(Imp)							

Working Conditions							
Pmax Temperature Coefficient	-0.41 %/°C						
Voc Temperature Coefficient	-0.32 %/°C						
Isc Temperature Coefficient	+0.05 %/°C						
Operating Temperature	-40~+85 °C						
Nominal Operating Cell Temperature (NOCT)	45±2 °C						
Maximum System Voltage	1000v/1500V(UL)						
Maximum Series Fuse	20A						
Grounding conductivity	<0.1Ω						
PV module classification	Class II						
Insulation Resistance	≥100M Ω						

Mechanical Specification	ons					
External Dimensions	2018*998*30/2045*1008*30 mm					
Weight	25.5/ 26.5kg					
	Polycrystalline:156.75x156.75mm					
Solar Cells	158.75*158.75mm(72pcs)					
Front glass	3.2 mm tempered glass, low iron					
Frame	Anodized/Electrophoretic aluminum aloy					
Junction Box	IP67					
Output Cables	4.0 mm2, cable lengths 1000mm					
Hailstone Impact Test	80 km/h for 25mm ice ball					



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GSUN-xxx-BPB-DG (xxx=265-285)

Rated Power					
(Pmp)	265	270	275	280	285
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W
Power	±3%	$\pm 3\%$	±3%	±3%	$\pm 3\%$
Tolerance					
Open Circuit	37.7	38.0	38.2	38.5	38.8
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.88	8.97	9.07	9.15	9.23
Current (Isc)	±4%	$\pm 4\%$	±4%	±4%	$\pm 4\%$
Maximum					
Power Voltage	31.5	31.8	32.0	32.3	32.6
(Vmp)					
Maximum					
Power Current	8.42	8.50	8.60	8.67	8.75
(Imp)					

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications						
External Dimensions	1696*998*30/1720*1008*30 mm					
Weight	22.0/22.5 kg					
	Polycrystalline:156.75x156.75mm					
Solar Cells	158.75*158.75mm(60pcs)					
Front glass	3.2 mm tempered glass, low iron					
Frame	Anodized/Electrophoretic aluminum					
	aloy					
Junction Box	IP67					
Output Cables	4.0 mm2, cable lengths 1000mm					
Hailstone Impact Test	80 km/h for 25mm ice ball					



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GSUN-xxx-BPC-DG (xxx=290-315)

Rated Power						
(Pmp)	290	295	300	305	310	315
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W
Power	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance						
Open Circuit	41.3	41.5	41.8	42.0	42.4	42.7
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%
Short Circuit	8.87	8.99	9.05	9.14	9.21	9.27
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%
Maximum						
Power Voltage	34.5	34.7	35.0	35.2	35.5	35.9
(Vmp)						
Maximum						
Power Current	8.41	8.52	8.58	8.67	8.73	8.79
(Imp)						

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications					
External Dimensions	1884*1008*30mm				
Weight	24.5kg				
	Polycrystalline:156.75x156.75mm				
Solar Cells	158.75*158.75mm(60pcs)				
Front glass	3.2 mm tempered glass, low iron				
Frame	Anodized/Electrophoretic aluminum				
riaille	aloy				
Junction Box	IP67				
Output Cables	4.0 mm2, cable lengths 1000mm				
Hailstone Impact Test	80 km/h for 25mm ice ball				



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GSUN-xxx-BMA-BG (xxx=350-410)

Rated Power													
(Pmp)	350	355	360	365	370	375	380	385	390	395	400	405	410
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4	0~+4	0~+4	0~+4.
Tolerance	99W	.99W	.99W	.99W	99W								
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance													
Open Circuit	47.4	47.6	47.8	48.0	48.3	48.5	48.7	48.9	49.1	49.3	49.5	49.7	49.9±
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	2%
Short Circuit	9.44	9.54	9.61	9.69	9.76	9.84	9.93	10.00	10.09	10.16	10.25	10.32	10.40
Current (Isc)	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum													
Power	39.6	39.8	40.0	40.2	40.5	40.7	40.9	41.1	41.3	41.5	41.7	41.9	42.1
Voltage (Vmp)													
Maximum													
Power	8.84	8.93	9.00	9.08	9.14	9.22	9.30	9.37	9.45	9.52	9.60	9.67	9.74
Current	0.04	0.93	9.00	9.00	3.14	9.22	9.30	9.37	9.43	9.32	9.00	9.07	9.74
(Imp)													

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons
External Dimensions	2018*998*30/ 2045*1008*30mm
Weight	25.5/26.5 kg
	Monocrystalline:156.75x156.75mm
Solar Cells	158.75*158.75mm(72pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/Electrophoretic aluminum aloy
Junction Box	IP67
Output Cables	4.0 mm2, cable lengths 1000mm
Hailstone Impact Test	80 km/h for 25mm ice ball



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GSUN-xxx-BMB-BG (xxx=290-340)

Rated Power											
(Pmp)	290	295	300	305	310	315	320	325	330	335	340
	0~+	0~+	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Power	4.9	4.99	99W								
Tolerance	9W	W									
Power	±	±	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance	3%	3%									
	392	39.4	39.6	39.9	40.2	40.5	40.7	40.9	41.1	41.4	41.6
Open Circuit	土	土									
Voltage (Voc)	2%	2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
Charle Circuit	9.3	9.54	0.05	0.70	0.00	0.00	0.00	40.07	40.40	40.00	10.01
Short Circuit	4±	土	9.65	9.72	9.80	9.86	9.96	10.07	10.16	10.22	10.31
Current (Isc)	4%	4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%	±4%
Maximum											
Power Voltage	32.8	33	33.2	33.5	33.8	34.1	34.3	34.5	34.7	35	35.2
(Vmp)											
Maximum											
Power Current	8.85	8.94	9.04	9.11	9.18	9.24	9.33	9.43	9.52	9.58	9.66
(Imp)											

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell	45±2 °C
Temperature (NOCT)	
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons			
External Dimensions	1696*998*30/1720*1008*30 mm			
Weight	22.0/22.5 kg			
	Monocrystalline:156.75x156.75mm			
Solar Cells	158.75*158.75mm(60pcs)			
Front glass	3.2 mm tempered glass, low iron			
Frame	Anodized/Electrophoretic aluminum aloy			
Junction Box	IP67			
Output Cables	4.0 mm2, cable lengths 1000mm			
Hailstone Impact	80 km/h for 25mm ice ball			
Test				



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GSUN-xxx-BMC-BG (xxx=320-375)

Rated Power												
(Pmp)	320	325	330	335	340	345	350	355	360	365	370	375
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4
Tolerance	99W	99W	99W	99W	99W							
Power	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Tolerance												
Open Circuit	43.2	43.4	43.6	43.8	44.1	44.3	44.5	44.7±	44.9±	45.2±	45.4±	45.6 ⊒
Voltage (Voc)	±2%	±2%	±2%	±2%	±2%	±2%	±2%	2%	2%	2%	2%	2%
Short Circuit	8.87±	8.964	9.054	9.134	9.194	9.284	9.364	9.45 4	9.534	9.594	9.674	9.754
Current (Isc)	4%	%	%	%	%	%	%	%	%	%	%	%
Maximum												
Power Voltage	36.1	36.3	36.5	36.7	37	37.2	37.4	37.6	37.8	38.1	38.3	38.5
(Vmp)												
Maximum												
Power Current	8.87	8.96	9.05	9.13	9.19	9.28	9.36	9.45	9.53	9.59	9.67	9.75
(Imp)												

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specification	ons			
External Dimensions	1884*1008*30mm			
Weight	24.5kg			
Solar Cells	Monocrystalline:156.75x156.75mm			
Solai Celis	158.75*158.75mm(60pcs)			
Front glass	3.2 mm tempered glass, low iron			
Frame	Anodized/Electrophoretic aluminum aloy			
Junction Box	IP67			
Output Cables	4.0 mm2, cable lengths 1000mm			
Hailstone Impact Test	80 km/h for 25mm ice ball			



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GSUN-xxx-E6A/GSUN-xxx-E6A -HV (xxx=410-435)

Rated Power (Pmp)	410	415	420	425	430	435
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit	54.5	54.7	54.9	55.05	55.3	55.5
Voltage (Voc)	±2	± 2	±2	±2	± 2	± 2
Short Circuit	9.63	9.71	9.78	9.84	9.91	9.97
Current (Isc)	±4%	$\pm 4\%$	±4%	±4%	$\pm 4\%$	$\pm 4\%$
Maximum Power Voltage (Vmp)	45.4	45.6	45.8	46.0	46.2	46.4
Maximum Power Current (Imp)	9.04	9.11	9.18	9.24	9.32	9.38

Working Conditions	
Pmax Temperature Coefficient	-0.41 %/°C
Voc Temperature Coefficient	-0.32 %/°C
Isc Temperature Coefficient	+0.05 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C
Maximum System Voltage	1000v/1500V(UL)
Maximum Series Fuse	20A
Grounding conductivity	<0.1Ω
PV module classification	Class II
Insulation Resistance	≥100M Ω

Mechanical Specifications				
External Dimensions	2110*1002*40mm			
Weight	23.0kg			
Solar Cells	monostalline:158.75*26.46mm(486pcs)			
Front glass	3.2 mm tempered glass, low iron			
Frame	Anodized/Electrophoretic aluminum aloy			
Junction Box	IP67			
Output Cables	4.0 mm2, cable lengths 1000mm			
Hailstone Impact Test	80 km/h for 25mm ice ball			



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GSUN-xxx-E6B/GSUN-xxx-E6B -HV (xxx=350-370)

Rated Power (Pmp)	350	355	360	365	370
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W
Power Tolerance	±3%	±3%	±3%	±3%	±3%
Open Circuit	46±	46.2	46.4	46.6	46.8
Voltage (Voc)	2	± 2	± 2	±2	± 2
Short Circuit	9.76	9.85	9.93	10.02	10.1
Current (Isc)	±4%	$\pm 4\%$	$\pm 4\%$	±4%	$\pm 4\%$
Maximum					
Power Voltage	38.2	38.4	38.6	38.8	39.0
(Vmp)					
Maximum					
Power Current	9.17	9.25	9.33	9.41	9.49
(Imp)					

Working Conditions			
Pmax Temperature Coefficient	-0.41 %/°C		
Voc Temperature Coefficient	-0.32 %/°C		
Isc Temperature Coefficient	+0.05 %/°C		
Operating Temperature	-40~+85 °C		
Nominal Operating Cell	45±2 °C		
Temperature (NOCT)	.522 0		
Maximum System Voltage	1000v/1500V(UL)		
Maximum Series Fuse	20A		
Grounding conductivity	<0.1Ω		
PV module classification	Class II		
Insulation Resistance	≥100M Ω		

Mechanical Specifications		
External Dimensions	1806*1002*35mm	
Weight	19.5kg	
Solar Cells	monostalline:158.75*26.46mm(486pc	
	s)	
Front glass	3.2 mm tempered glass, low iron	
Frame	Anodized/Electrophoretic aluminum aloy	
Junction Box	IP67	
Output Cables	4.0 mm2, cable lengths 1000mm	
Hailstone Impact Test	80 km/h for 25mm ice ball	



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GSUN-xxx-BMZ/GSUN-xxx-BMZ -HV (xxx=425-450)

Rated Power (Pmp)	425	430	435	440	445	450
Power	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.	0~+4.
Tolerance	99W	99W	99W	99W	99W	99W
Power Tolerance	±3%	±3%	±3%	±3%	±3%	±3%
Open Circuit	52.1	52.2	52.4	52.6	52.7	52.9
Voltage (Voc)	±2	± 2	±2	±2	± 2	±2
Short Circuit	10.31	10.40	10.47	10.53	10.64	10.70
Current (Isc)	±4%	$\pm 4\%$	±4%	±4%	±4%	±4%
Maximum						
Power Voltage	43.8	43.9	44.1	44.3	44.4	44.6
(Vmp)						
Maximum						
Power Current	9.71	9.80	9.87	9.93	10.03	10.09
(Imp)						

Working Conditions			
Pmax Temperature Coefficient	-0.41 %/°C		
Voc Temperature Coefficient	-0.32 %/°C		
Isc Temperature Coefficient	+0.05 %/°C		
Operating Temperature	-40~+85 °C		
Nominal Operating Cell	45±2 °C		
Temperature (NOCT)			
Maximum System Voltage	1000v/1500V(UL)		
Maximum Series Fuse	20A		
Grounding conductivity	<0.1Ω		
PV module classification	Class II		
Insulation Resistance	≥100M Ω		

Mechanical Specifications		
External Dimensions	2180*1002*40mm	
Weight	24.0kg	
Solar Cells	monostalline:158.75*79.38mm(156pcs)	
Front glass	3.2 mm tempered glass, low iron	
Frame	Anodized/Electrophoretic aluminum aloy	
Junction Box	IP67	
Output Cables	4.0 mm2, cable lengths 1000mm	
Hailstone Impact Test	80 km/h for 25mm ice ball	