

GES-6P185 GES-6P190

GES-6P175 GES-6P180 GES-6P195

185 Watt Polycrystalline Photovoltaic Module



Outstanding mechanical load performance enables each panel to withstand wind up to 200 km/h or snow up to 550 kg/m².



In-line Electroluminescence (EL) testing of each panel ensures no micro-cracks or mismatch on cells.



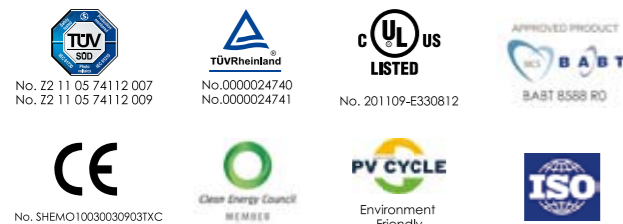
Ammonia Endurance Test(IEC62716) and Salt Mist Test(IEC61701) verified the excellent performance of each panel in harsh or unusual environments.



Aging test under 85 °C and 85 % relative humidity for at least 1500 hours guarantees a low power degradation for 25 years.



*Black modules are also available



Features

- Up to +5W power tolerance of each panel ensuring high ROI
- High cell conversion efficiency up to 17.6%
- Outstanding electrical performance under high temperature and low-irradiance conditions
- Easy installation and all-weather applications thanks to innovative engineering design

Insurance

All performance and cooperation warranties are ensured with Product Liability and Financial Injury (E&O) Liability Insurance with CHUBB INSURANCE (CHINA) COMPANY LIMITED.

Warranty

GESOLAR guarantees

- Up to +5W power tolerance of each panel
- Workmanship and materials in 10 years
- 90 % minimum power output in 12 years
- 80 % minimum power output in 25 years

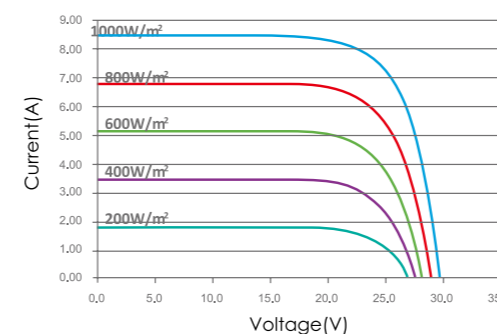
Electrical Characteristics

Characteristics	Unit	GES-6P175	GES-6P180	GES-6P185	GES-6P190	GES-6P195
Maximum Power (Pmax)	W	175	180	185	190	195
Power Tolerance	W	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Open Circuit Voltage (Voc)	V	29.6	29.7	29.8	29.9	30.0
Short Circuit Current (Isc)	A	8.20	8.33	8.45	8.56	8.78
Maximum Power Voltage (Vmp)	V	22.5	22.6	23.2	23.4	23.6
Maximum Power Current (Imp)	A	7.78	7.95	7.96	8.12	8.26
Cell Efficiency (ηc)	%	15.4~15.9	15.9~16.3	16.3~16.8	16.8~17.2	17.2~17.7
Module Efficiency (ηm)	%	13.4~13.7	13.7~14.1	14.1~14.5	14.5~14.9	14.9~15.7
Cell Technology	156mm×156mm, Polycrystalline Silicon;48pcs(6×8)					
Pmax Temperature Coefficient	%/°C	-0.42				
Voc Temperature Coefficient	%/°C	-0.30				
Isc Temperature Coefficient	%/°C	+0.083				
Maximum System Voltage	VDC	1000(TUV);600(UL)				
Maximum Series Fuse Rating	A	13				
Operating Temperature	°C	-40 ~ +85				
NOCT	°C	45±2				

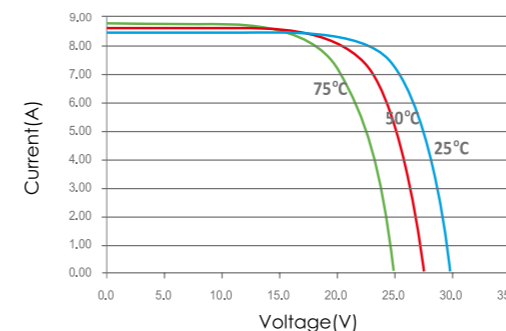
STC: 1000W/m², AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

I-V Curves

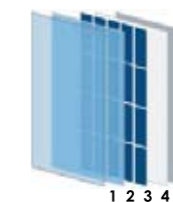
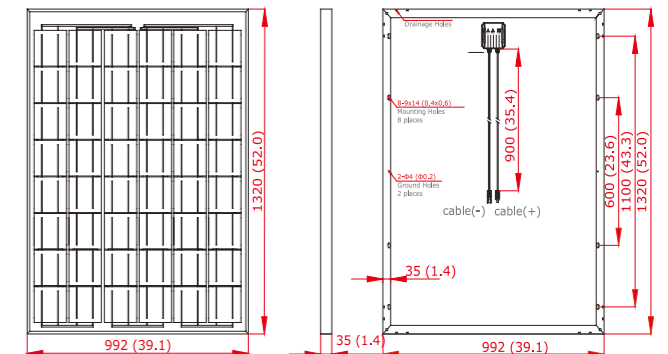
I-V Curves of PV Module GES-6P185 (Cell Temp.25°C)



I-V Curves of PV Module GES-6P185 at Different Cell Temperatures(AM1.5,1000W/m²)



Physical Characteristics Unit: mm(inch)



1. Tempered Glass
2. EVA(Ethylene Vinyl Acetate)
3. Solar Cells
4. EVA(Ethylene Vinyl Acetate)
5. Backsheet

Dimension	1320 x 992 x 35 mm (52.0 x 39.1 x 1.4 inch)
Weight	16.5 kg (36.4 lbs.)
Cable Length	900 mm (35.4 inch)
Bypass Diodes	3 pcs
Junction Box	IP65/IP67
Front Glass	3.2 mm (0.1 inch) tempered low-iron glass
Frame	Anodized aluminum alloy

* Specifications are subjected to change without further notice.