

GES-6M220 GES-6M225

GES-6M210 GES-6M215 GES-6M230

225 Watt Monocrystalline 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.



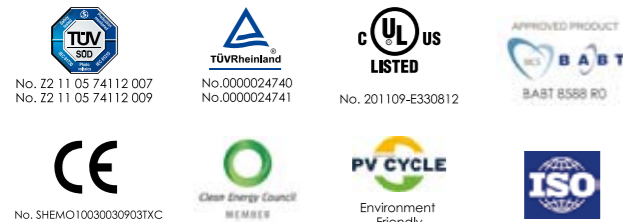
Ammonia Endurance Test(IEC62716) and Salt Mist Test(IEC61701) verified the excellent performance of each panel in harsh or unusual environments.



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 18.5 %
- 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

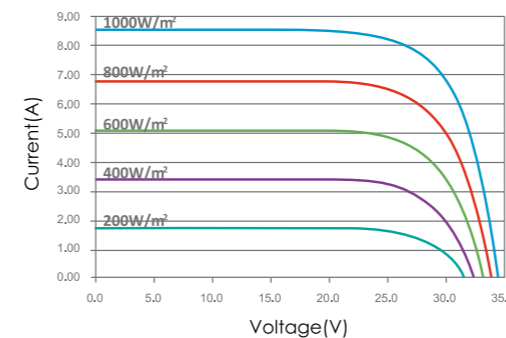
Electrical Characteristics

Characteristics	Unit	GES-6M210	GES-6M215	GES-6M220	GES-6M225	GES-6M230
Maximum Power (Pmax)	W	210	215	220	225	230
Power Tolerance	W	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Open Circuit Voltage (Voc)	V	34.0	34.2	34.4	34.6	34.7
Short Circuit Current (Isc)	A	8.24	8.38	8.53	8.67	8.84
Maximum Power Voltage (Vmp)	V	26.5	26.65	26.8	26.95	27.2
Maximum Power Current (Imp)	A	7.92	8.07	8.21	8.35	8.46
Cell Efficiency (ηc)	%	16.8~17.2	17.2~17.6	17.6~18.0	18.0~18.4	18.4~18.8
Module Efficiency (ηm)	%	14.3~14.6	14.6~15.0	15.0~15.3	15.3~15.6	15.6~15.9
Cell Technology 156mm×156mm, Monocrystalline Silicon;54pcs(6×9)						
Pmax Temperature Coefficient	%/°C	-0.44				
Voc Temperature Coefficient	%/°C	-0.32				
Isc Temperature Coefficient	%/°C	+0.04				
Maximum System Voltage	VDC	1000(TUV);600(UL)				
Maximum Series Fuse Rating	A	13				
Operating Temperature	°C	-40 ~ +85				
NOCT	°C	45±2				

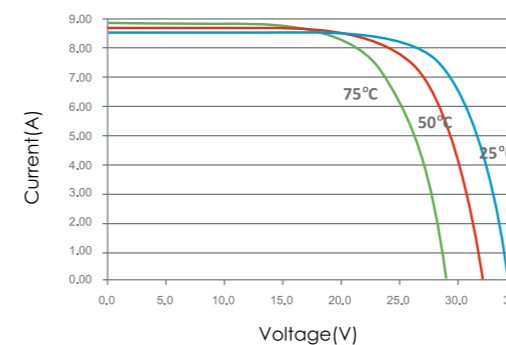
STC: 1000W/m², AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

I-V Curves

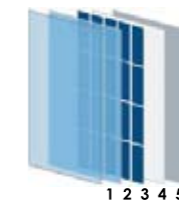
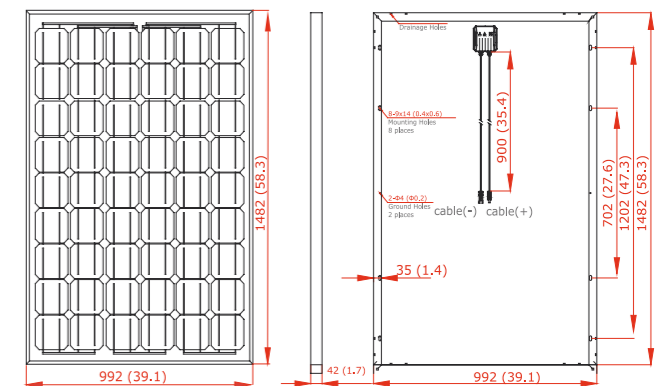
I-V Curves of PV Module GES-6M220 (Cell Temp. 25 °C)



I-V Curves of PV Module GES-6M220 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	1482 x 992 x 42 mm (58.3 x 39.1 x 1.7 inch)
Weight	18.5 kg (40.8 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