

## GES-6P235 GES-6P240

GES-6P225 GES-6P230 GES-6P245

### 235 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/m<sup>2</sup>



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



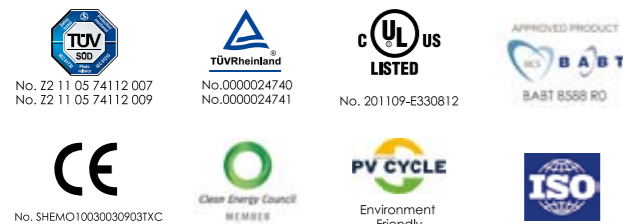
Ammonia Endurance Test(IEC62716) and Salt Mist Test(IEC61701) verified the excellent performance of each panel in harsh or unusual environments.



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

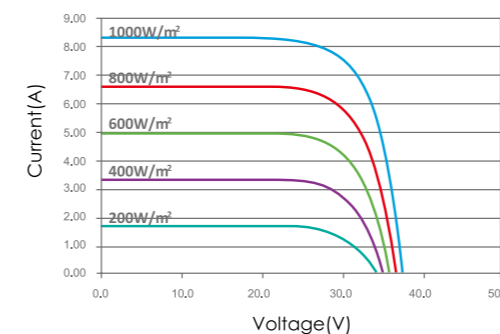
### Electrical Characteristics

Characteristics	Unit	GES-6P225	GES-6P230	GES-6P235	GES-6P240	GES-6P245
Maximum Power (Pmax)	W	225	230	235	240	245
Power Tolerance	W	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Open Circuit Voltage (Voc)	V	37.0	37.0	37.1	37.2	37.3
Short Circuit Current (Isc)	A	8.16	8.22	8.28	8.33	8.75
Maximum Power Voltage (Vmp)	V	29.7	29.8	30.0	30.2	30.4
Maximum Power Current (Imp)	A	7.59	7.73	7.84	7.95	8.06
Cell Efficiency (ηc)	%	15.9~16.2	16.2~16.6	16.6~16.9	16.9~17.3	17.3~17.7
Module Efficiency (ηm)	%	13.8~14.1	14.1~14.4	14.4~14.8	14.8~15.1	15.1~15.4
Cell Technology 156mm×156mm, Polycrystalline Silicon;60pcs(6×10)						
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				

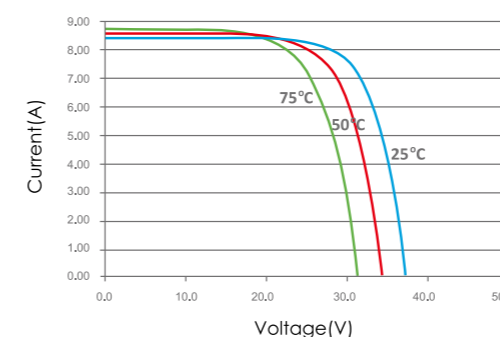
STC: 1000W/m<sup>2</sup>, AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

### I-V Curves

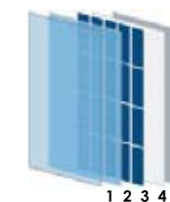
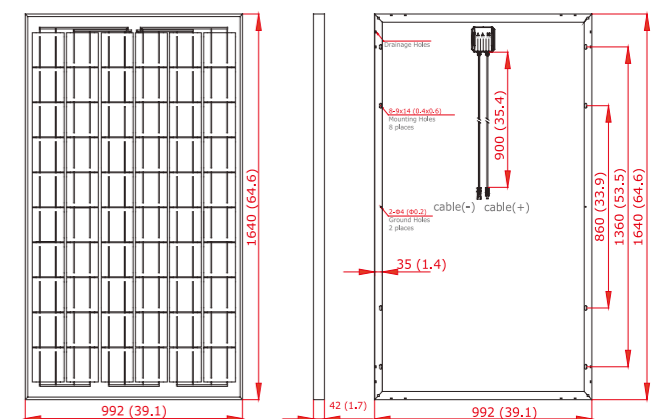
I-V Curves of PV Module GES-6P235 (Cell Temp.25°C)



I-V Curves of PV Module GES-6P235 at Different Cell Temperatures(AM1.5,1000W/m<sup>2</sup>)



### Physical Characteristics Unit: mm(inch)



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

Dimension	1640 x 992 x 42 mm (64.6 x 39.1 x 1.7 inch)
Weight	19.5 kg (43.0 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.