

## GES-6M245      GES-6M250

GES-6M235   GES-6M240   GES-6M255

### 250 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/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.



### 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.



\*Black modules are also available

### Warranty

#### Sainty Solar 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

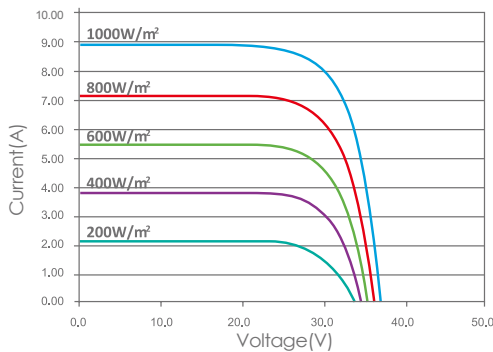
## Electrical Characteristics

Characteristics	Unit	GES-6M235	GES-6M240	GES-6M245	GES-6M250	GES-6M255
Maximum Power (Pmax)	W	235	240	245	250	255
Power Tolerance	W	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Open Circuit Voltage (Voc)	V	36.9	37.0	37.2	37.3	37.4
Short Circuit Current (Isc)	A	8.51	8.65	8.97	8.94	9.09
Maximum Power Voltage (Vmp)	V	29.5	29.6	29.8	29.9	30.0
Maximum Power Current (Imp)	A	7.98	8.11	8.24	8.36	8.50
Cell Efficiency ( $\eta_c$ )	%	16.9~17.3	17.3~17.6	17.6~18.0	18.0~18.3	18.3~18.7
Module Efficiency ( $\eta_m$ )	%	14.4~14.8	14.8~15.1	15.1~15.4	15.4~15.7	15.7~16.0
Cell Technology	156mm×156mm, Monocrystalline Silicon;60pcs(6×10)					
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	

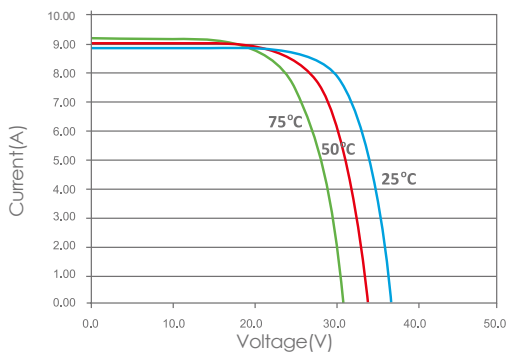
STC: 1000W/m<sup>2</sup>, AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

## I-V Curves

I-V Curves of PV Module GES-6M245  
(Cell Temp. 25°C)

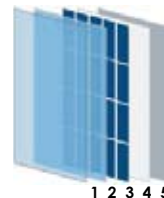
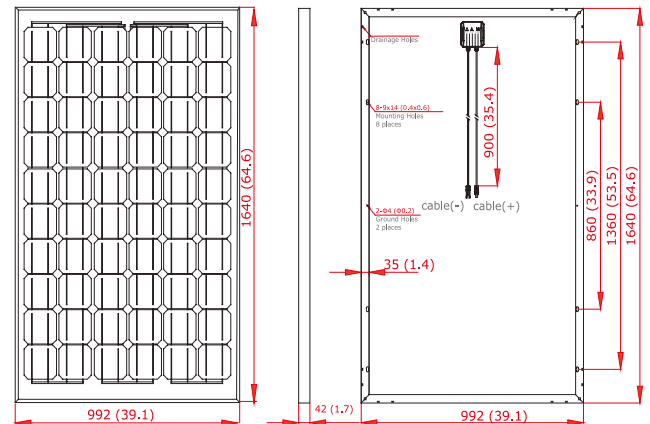


I-V Curves of PV Module GES-6M245  
at Different Cell Temperatures(AM1.5,1000W/m<sup>2</sup>)



## 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