

GES-5M95

GES-5M90 GES-5M100

95 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.



No. 201109-E330812



No. 22 11 05 74112 009



No. SHEMA100300309031XC



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

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

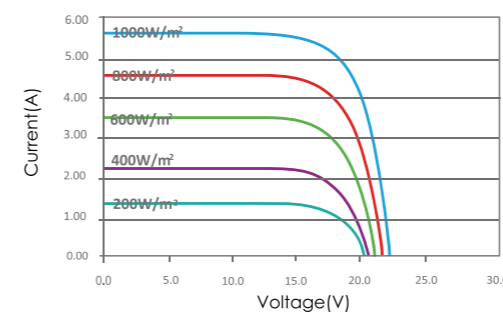
Electrical Characteristics

Characteristics	Unit	GES-5M90	GES-5M95	GES-5M100
Maximum Power (Pmax)	W	90	95	100
Power Tolerance	W	(0,+5)	(0,+5)	(0,+5)
Open Circuit Voltage (Voc)	V	22.2	22.3	22.4
Short Circuit Current (Isc)	A	5.41	5.72	5.75
Maximum Power Voltage (Vmp)	V	17.8	18.2	18.7
Maximum Power Current (Imp)	A	5.06	5.22	5.43
Cell Efficiency (ηc)	%	16.6~17.6	17.6~18.5	18.5~19.4
Module Efficiency (ηm)	%	13.9~14.7	14.7~15.5	15.5~16.2
Cell Technology		125mm×125mm, Monocrystalline Silicon; 36pcs(4×9)		
Pmax Temperature Coefficient	%/°C		-0.44	
Voc Temperature Coefficient	%/°C		-0.32	
Isc Temperature Coefficient	%/°C		+0.04	
Maximum System Voltage	VDC		715(TUV):600(UL)	
Maximum Series Fuse Rating	A		8	
Operating Temperature	°C		-40 ~+85	
NOCT	°C		45±2	

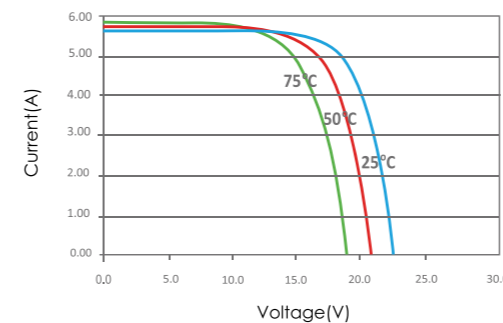
STC: 1000W/m², AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

I-V Curves

I-V Curves of PV Module GES-5M95 (Cell Temp.25°C)

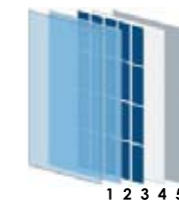
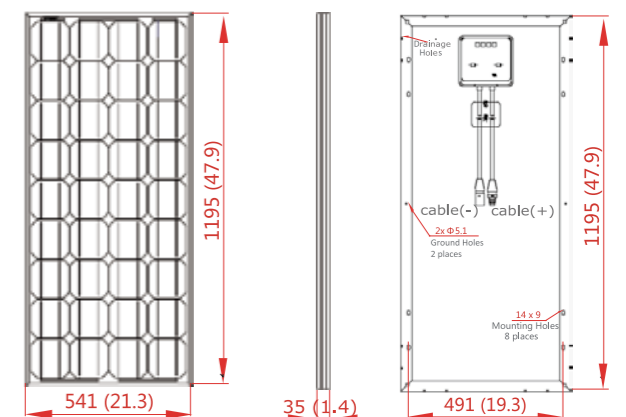


I-V Curves of PV Module GES-5M95 at Different Cell Temperatures(AM1.5,1000W/m²)



Physical Characteristics

Unit: mm(inch)



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

Dimension	1195 x 541x 35 mm (47.0 x 21.3 x 1.4 inch)
Weight	8.0 kg (17.6 lbs.)
Cable Length	900 mm (35.4 inch)
Junction Box	IP65
Front Glass	3.2 mm (0.1 inch) tempered low-iron glass
Frame	Anodized aluminum alloy

* Specifications are subjected to change without further notice.