

GES-6P90

GES-6P85 GES-6P95

90 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.



No. 201109-E330812



No. SHEMA100300309031XC



Environment Friendly

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

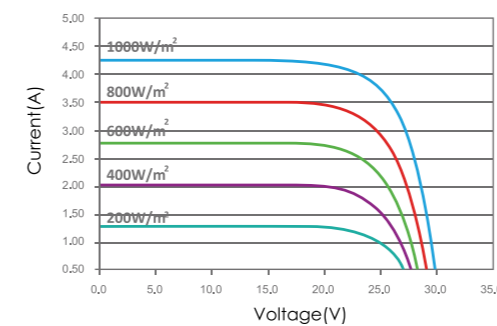
Electrical Characteristics

Characteristics	Unit	GES-6P85	GES-6P90	GES-6P95
Maximum Power (Pmax)	W	85	90	95
Power Tolerance	W	(0,+5)	(0,+5)	(0,+5)
Open Circuit Voltage (Voc)	V	29.2	29.3	29.4
Short Circuit Current (Isc)	A	4.19	4.25	4.31
Maximum Power Voltage (Vmp)	V	23.1	23.3	23.5
Maximum Power Current (Imp)	A	3.77	3.95	4.04
Cell Efficiency (ηc)	%	15.0~15.9	15.9~16.8	16.8~17.7
Module Efficiency (ηm)	%	12.4~13.1	13.1~13.8	13.8~14.6
Cell Technology		156mm×78mm, 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		715(TUV);600(UL)	
Maximum Series Fuse Rating	A		5	
Operating Temperature	°C		-40 ~ +85	
NOCT	°C		45±2	

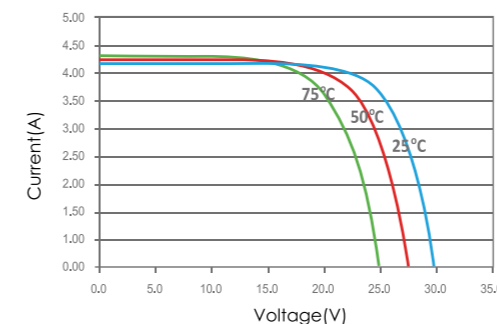
STC: 1000W/m², AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

I-V Curves

I-V Curves of PV Module GES-6P90 (Cell Temp..25°C)

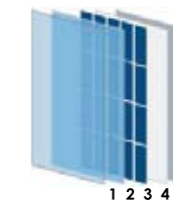
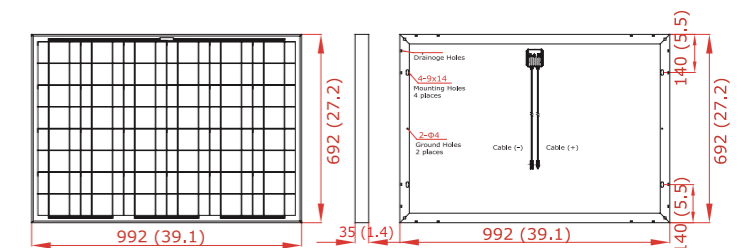


I-V Curves of PV Module GES-6P90 at Different Cell Temperatures(AM1.5,1000W/m²)



Physical Characteristics

Unit: mm(inch)



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

Dimension	992 x 692 x 35 mm (39 x 27.2 x 1.4 inch)
Weight	8.0 kg (17.6 lbs.)
Cable Length	900 mm (35.4 inch)
Bypass Diodes	3 pcs
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.