

GES-6P45

45 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. SHEMA10030030903TXC



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

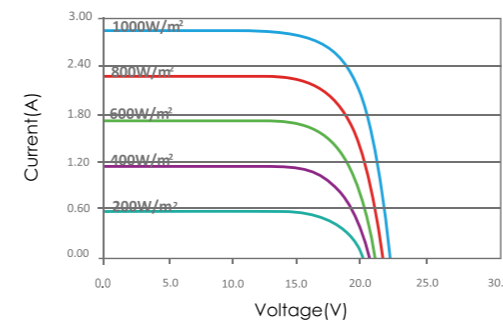
Electrical Characteristics

Characteristics	Unit	GES-6P45
Maximum Power (Pmax)	W	45
Power Tolerance	W	(0,+5)
Open Circuit Voltage (Voc)	V	22.2
Short Circuit Current (Isc)	A	2.79
Maximum Power Voltage (Vmp)	V	17.6
Maximum Power Current (Imp)	A	2.58
Cell Efficiency (ηc)	%	15.8~17.6
Module Efficiency (ηm)	%	12.6~14.0
Cell Technology		156mm×52mm, Polycrystalline Silicon; 36pcs(4×9)
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	7
Operating Temperature	°C	-40 ~ +85
NOCT	°C	45±2

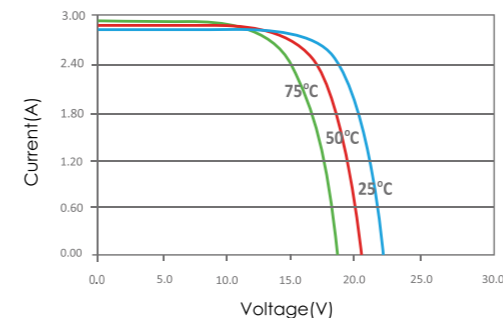
STC: 1000W/m², AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

I-V Curves

I-V Curves of PV Module GES-6P45 (Cell Temp.25°C)

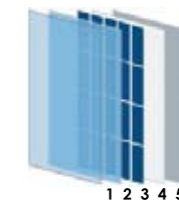
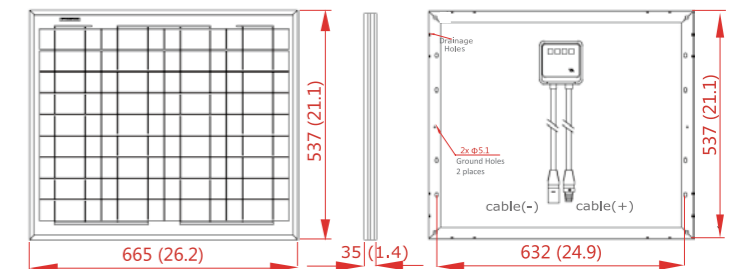


I-V Curves of PV Module GES-6P45 at Different Cell Temperatures(AM1.5,1000W/m²)



Physical Characteristics

Unit: mm(inch)



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

Dimension	537 x 665 x 35 mm (21.1 x 26.2 x 1.4 inch)
Weight	4.5 kg (9.9 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.