GESOLAR
Build and Beyond

GES-5M5

5 Watt Monocrystalline Photovoltaic Module

5400Pa

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.

NaCl NH3

Ammonia Endurance Test(IEC62716) and Salt Mist Test(IEC61701) verified the excellent performance of each panel in harch 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.

CE

No. SHEMO10030030903TXC

PV CYCLE

Environment Friendly

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

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

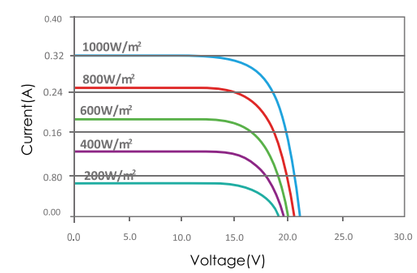
Electrical Characteristics

Characteristics	Unit	GES-5M5
Maximum Power (Pmax)	W	5
Power Tolerance	W	(0,+5)
Open Circuit Voltage (Voc)	V	21.6
Short Circuit Current (Isc)	A	0.32
Maximum Power Voltage (Vmp)	V	17.4
Maximum Power Current (Imp)	A	0.29
Cell Efficiency (ηc)	%	14.8~29.6
Module Efficiency (ηm)	%	7.6~15.1
Cell Technology		62.5mm×15.6mm, 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	1
Operating Temperature	°C	-40 ~ +85
NOCT	°C	45±2

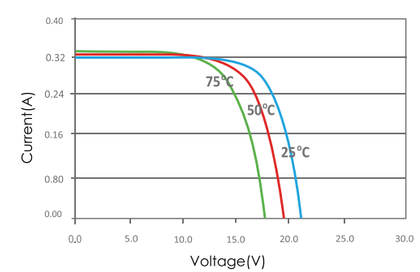
STC: 1000W/m2, AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

I-V Curves

I-V Curves of PV Module GES-5M5
(Cell Temp. 25°C)

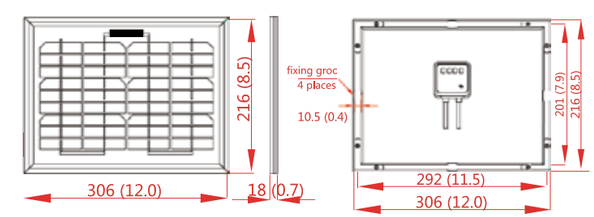


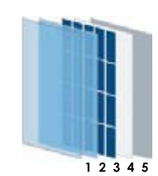
I-V Curves of PV Module GES-5M5
at Different Cell Temperatures(AM1.5,1000W/m²)



Physical Characteristics

Unit: mm(inch)





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

Dimension	216 x 306 x 18 mm (8.5 x 12.0 x 0.7 inch)
Weight	0.8 kg (1.76 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

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