GESOLAR
Build and Beyond

# GES-6P140

## GES-6P135 GES-6P145

**140 Watt** Polycrystalline 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.

c UL us LISTED
No. 201109-E330812

TÜV SÜD
No. Z2 11 05 74112 007

CE
No. SHEMO10030030903TXC

Clean Energy Council MEMBER

PV CYCLE
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

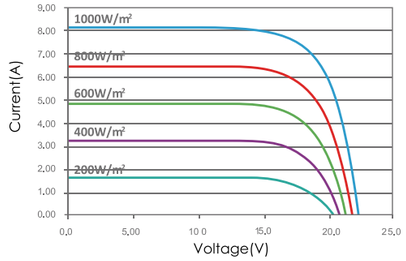
## Electrical Characteristics

| Characteristics | Unit | GES-6P135 | GES-6P140 | GES-6P145 |
|---|---|---|---|---|
| Maximum Power (Pmax) | W | 135 | 140 | 145 |
| Power Tolerance | W | (0,+5) | (0,+5) | (0,+5) |
| Open Circuit Voltage (Voc) | V | 22.0 | 22.2 | 22.4 |
| Short Circuit Current (Isc) | A | 8.00 | 8.06 | 8.63 |
| Maximum Power Voltage (Vmp) | V | 17.3 | 17.5 | 17.7 |
| Maximum Power Current (Imp) | A | 7.80 | 8.00 | 8.19 |
| Cell Efficiency (ηc) | % | 15.9~16.5 | 16.5~17.1 | 17.1~17.7 |
| Module Efficiency (ηm) | % | 13.5~14.0 | 14.0~14.5 | 14.5~15.0 |
| Cell Technology | | 156mm×156mm, 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 | 13 | | |
| Operating Temperature | °C | -40 ~+85 | | |
| NOCT | °C | 45±2 | | |

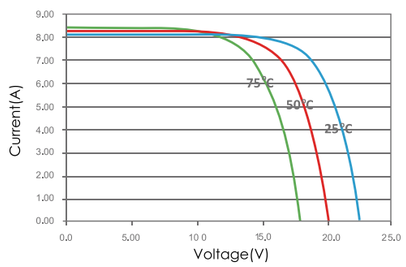
STC: 1000W/m2, AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

## I-V Curves

I-V Curves of PV Module GES-6P140
(Cell Temp..25°C)

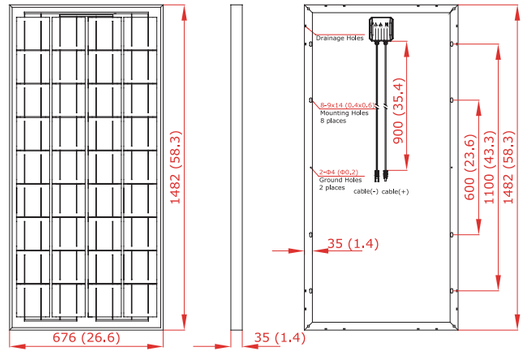



I-V Curves of PV Module GES-6P140
at Different Cell Temperatures(AM1.5,1000W/m² )




## Physical Characteristics

Unit: mm(inch)





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

| | |
|---|---|
| Dimension | 1482 x 676 x 35 mm (58.3 x 26.6 x 1.4 inch) |
| Weight | 11.5 kg (25.4 lbs.) |
| Cable Length | 900 mm (35.4 inch) |
| Bypass Diodes | 2 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.