

Photovoltaic Module

Monocrystalline

GS-190M



Quality and Safety

- *Rigorous quality control meeting the highest international standards
- *High-transmissivity low-iron tempered glass, strong aluminium frame Using UV-resistant silicon
- *Safety Class II,conformity to CE

Features

- *Aesthetic appearance with excellent efficiency based on innovative photovoltaic technologies
- *High quality,strong aluminium frame,passing mechanical load testing 5400 Pa and wind pressure 2400Pa

Warranties

- *10 years limited product warranty
- *15 years at90% of the minimal rated power output
- *25 years at80% of the minimal rated power output

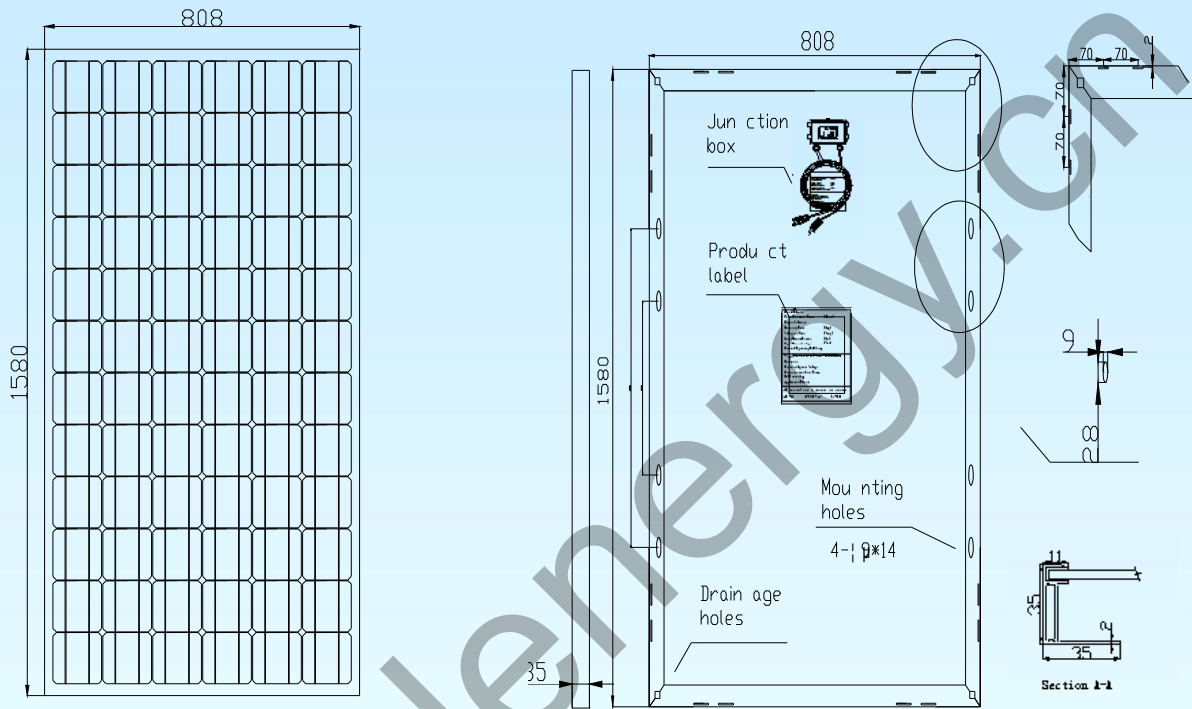
Certificates



Electrical Characteristics

| Model | GS-180M | GS-190M | GS-200M | GS-205M |
|---|----------|---------|---------|---------|
| Maximum Power at STC (P _{max}) | 180W | 190W | 200W | 205W |
| Optimum Operating Voltage (V _{mp}) | 36.89V | 37.44V | 37.77V | 37.8V |
| Optimum Operating Current (I _{mp}) | 4.97A | 5.18A | 5.39A | 5.52A |
| Open-Circuit Voltage (V _{oc}) | 45.1V | 44.86V | 45.25V | 45.36V |
| Short-Circuit Current (I _{sc}) | 5.51A | 5.78A | 5.92A | 6.12A |
| Solar Cell Efficiency (%) | 15.9 | 17.3 | 18.3 | 18.75 |
| Solar Module Efficiency (%) | 14.1 | 14.88 | 15.67 | 16.29 |
| Operating Temperature | -40to85℃ | | | |
| Maximum System Voltage | DC1000 | | | |
| Maximum Series Fuse Rating | 15A | | | |
| Power Tolerance | +/-3% | | | |
| STC:Irradiance 1000W/m ² ,Modules Temperature 25℃,AM=1.5 | | | | |

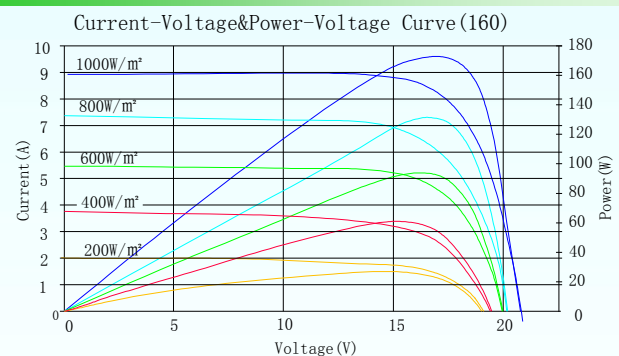
Engineering Drawings



Mechanical Characteristics

| | |
|---------------|------------------------------|
| Solar cell | Mono-Crystalline 125*125mm |
| No. of cells | 72(6×9) |
| Dimensions | 1580mm*808mm*35mm |
| Weight | 15kg |
| Front glass | 3.2mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction box | PV-LH0808 |
| Connector | Plug and socket |
| Output cables | PV 2.5mm ² , 0.9m |
| 1*20' | / |
| 1*40' | / |
| 1*40'HQ | / |

IV-Curves



Temperature Coefficient

| | |
|---|-----------|
| Nominal Operating Cell Temperature (NOCT) | 47°C±2°C |
| Temperature Coefficient of Pmax | -0.47%/K |
| Temperature Coefficient of VOC | -0.351%/K |
| Temperature Coefficient of ISC | +0.035%/K |