

Photovoltaic Module

Monocrystalline

GS-50M



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



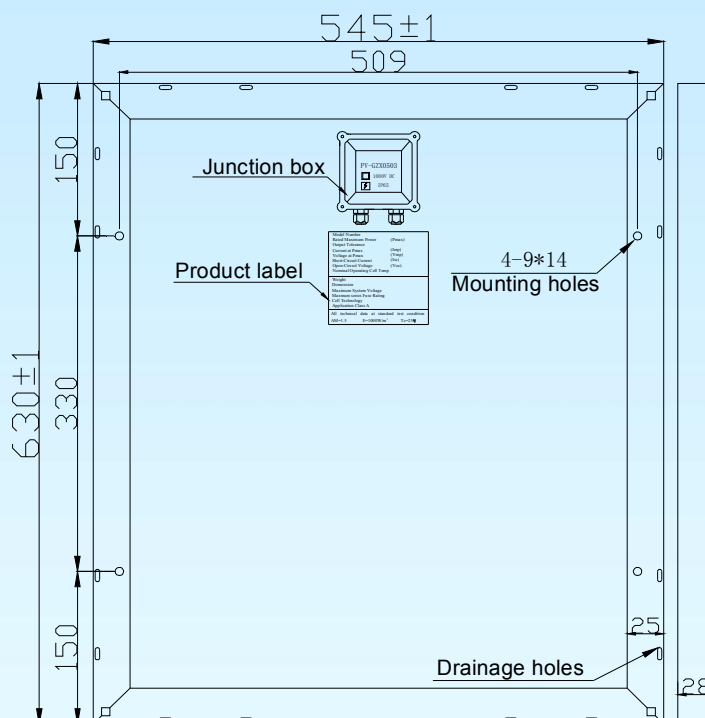
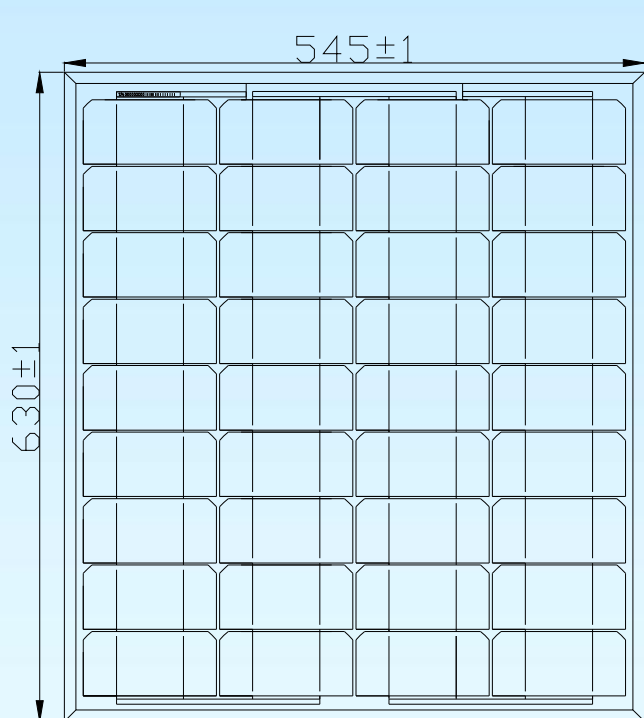
Electrical Characteristics

| Model | GS-40M | GS-45M | GS-50M |
|---|--------|----------|--------|
| Maximum Power at STC (P _{max}) | 40W | 45W | 50W |
| Optimum Operating Voltage (V _{mp}) | 17.6V | 17.6V | 17.8V |
| Optimum Operating Current (I _{mp}) | 2.273A | 2.557A | 2.809A |
| Open-Circuit Voltage (V _{oc}) | 21.8V | 21.8V | 22.4V |
| Short-Circuit Current (I _{sc}) | 2.548A | 2.789A | 3.017A |
| Solar Cell Efficiency (%) | 15.2 | 17.0 | 18.0 |
| Solar Module Efficiency (%) | 11.64 | 13.1 | 14.56 |
| 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 | | | |



GREEN SOLAR

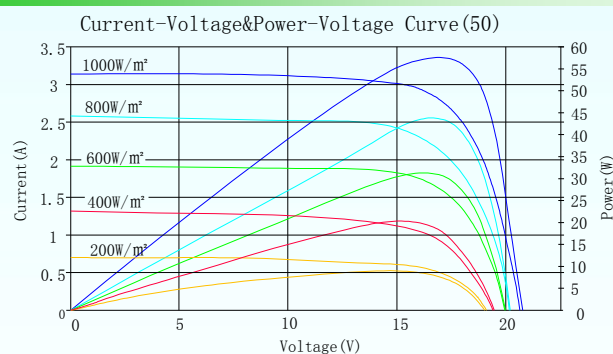
Engineering Drawings



Mechanical Characteristics

| | |
|---------------|-----------------------------|
| Solar cell | Mono-Crystalline 125*62.5mm |
| No. of cells | 36 (4*9) |
| Dimensions | 630mm*545mm*28mm |
| Weight | 4.2kg |
| Front glass | 3.2mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction box | PV-LH0801 |
| Connector | / |
| Output cables | / |
| 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 | -0.346%/K |
| Temperature Coefficient of ISC | +0.036%/K |