

Photovoltaic Module

Polycrystalline

GS-45P

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



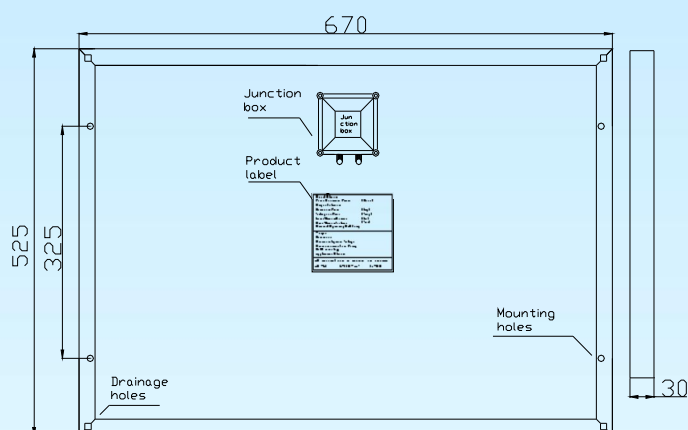
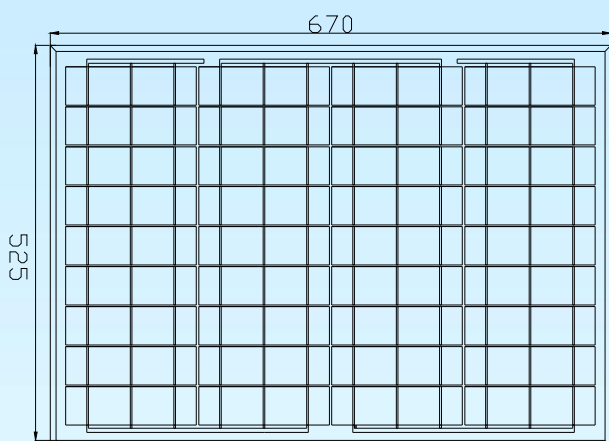
Electrical Characteristics

| | |
|----------------------------------------------------------------------|-----------|
| Model | GS-45P |
| Maximum Power at STC (P _{max}) | 45W |
| Optimum Operating Voltage (V _{mp}) | 17.6V |
| Optimum Operating Current (I _{mp}) | 2.557A |
| Open-Circuit Voltage (V _{oc}) | 21.84V |
| Short-Circuit Current (I _{sc}) | 2.784A |
| Solar Cell Efficiency (%) | 16.5 |
| Solar Module Efficiency (%) | 12.79 |
| Operating Temperature | -40to85°C |
| Maximum System Voltage | DC1000 |
| Maximum Series Fuse Rating | 15A |
| Power Tolerance | +/-3% |
| STC:Irradiance 1000W/m ² ,Modules Temperature 25°C,AM=1.5 | |



GREEN SOLAR

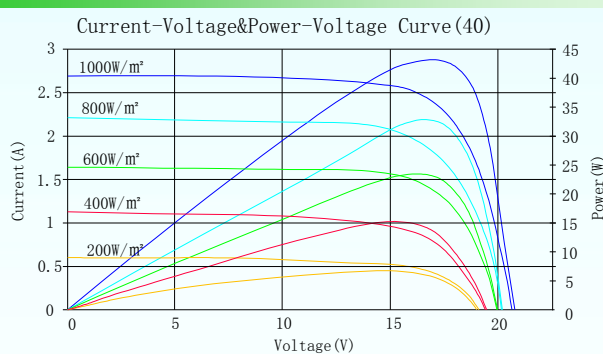
Engineering Drawings



Mechanical Characteristics

| | |
|---------------|---------------------------|
| Solar cell | Poly-Crystalline 156*50mm |
| No. of cells | 36(4×9) |
| Dimensions | 525mm*670mm*25mm |
| Weight | 4.8kg |
| Front glass | 3.2mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction box | PV-LH0801 |
| Connector | / |
| Output cables | / |
| 1*20' | 2100pcs |
| 1*40' | 4620pcs |
| 1*40'HQ | 4800pcs |

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 |