

# Photovoltaic Module

## Polycrystalline

### GS-40P

#### 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

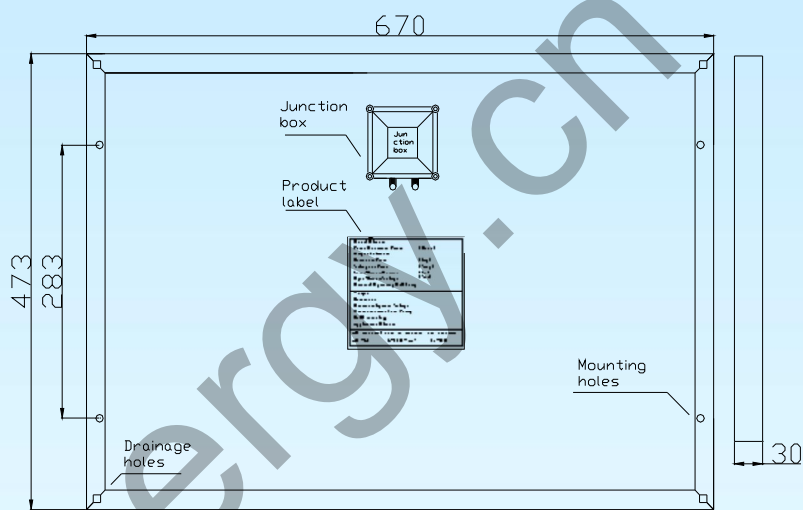
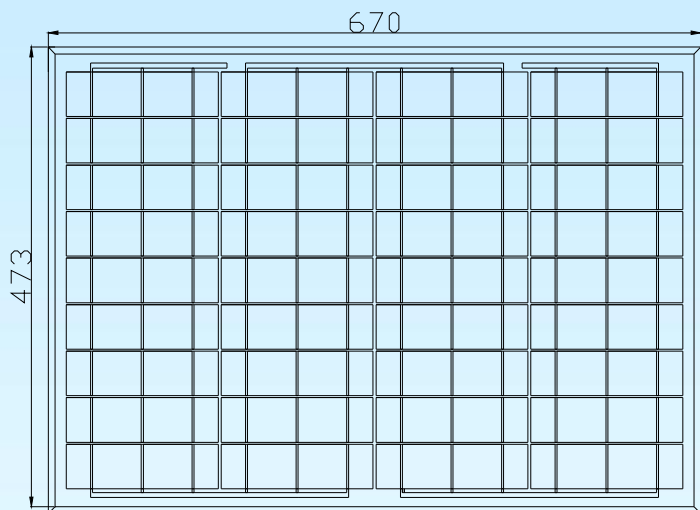
#### Certificates



#### Electrical Characteristics

Model	GS-40P
Maximum Power at STC (P <sub>max</sub> )	40W
Optimum Operating Voltage (V <sub>mp</sub> )	17.5V
Optimum Operating Current (I <sub>mp</sub> )	2.289A
Open-Circuit Voltage (V <sub>oc</sub> )	21.60V
Short-Circuit Current (I <sub>sc</sub> )	2.572A
Solar Cell Efficiency (%)	16.5
Solar Module Efficiency (%)	12.44
Operating Temperature	-40to85°C
Maximum System Voltage	DC1000
Maximum Series Fuse Rating	15A
Power Tolerance	+/-3%
STC:Irradiance 1000W/m <sup>2</sup> ,Modules Temperature 25°C,AM=1.5	

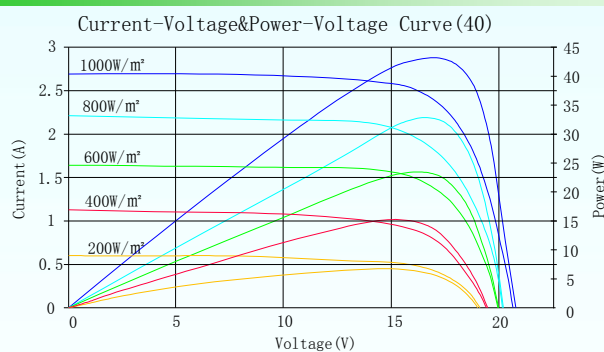
## Engineering Drawings



## Mechanical Characteristics

Solar cell	Poly-Crystalline 156*45mm
No. of cells	36(4×9)
Dimensions	473mm*670mm*30mm
Weight	4.5kg
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 P <sub>max</sub>	-0.47%/K
Temperature Coefficient of V <sub>OC</sub>	-0.351%/K
Temperature Coefficient of I <sub>SC</sub>	+0.035%/K