

Photovoltaic Module

Polycrystalline

GS-180P



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

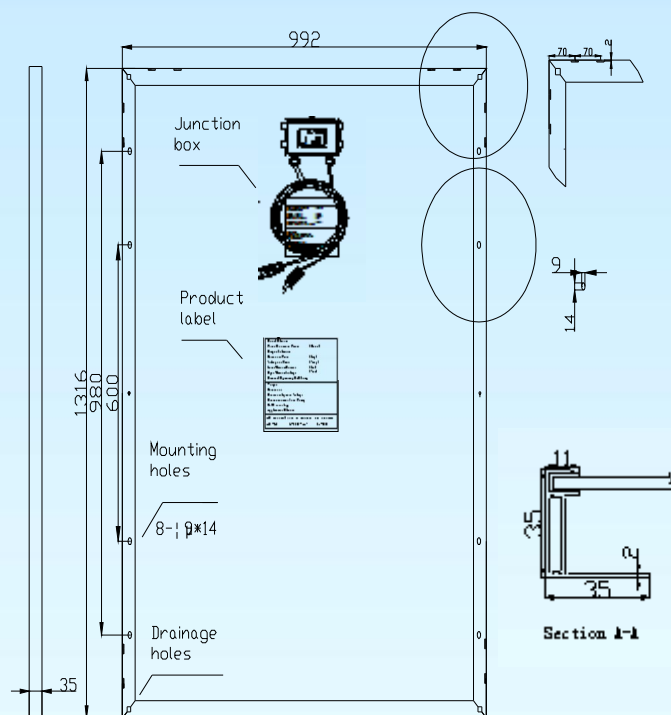
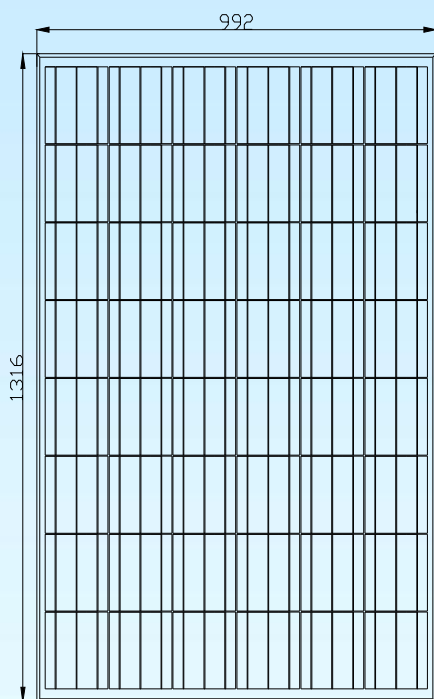
Certificates



Electrical Characteristics

Model	GS-180P	GS-190P
Maximum Power at STC (P _{max})	180W	190W
Optimum Operating Voltage (V _{mp})	24.2V	24.4V
Optimum Operating Current (I _{mp})	7.44A	7.79A
Open-Circuit Voltage (V _{oc})	29.2V	29.32V
Short-Circuit Current (I _{sc})	8.33A	8.86A
Solar Cell Efficiency (%)	15.7	16.6
Solar Module Efficiency (%)	13.79	14.55
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		

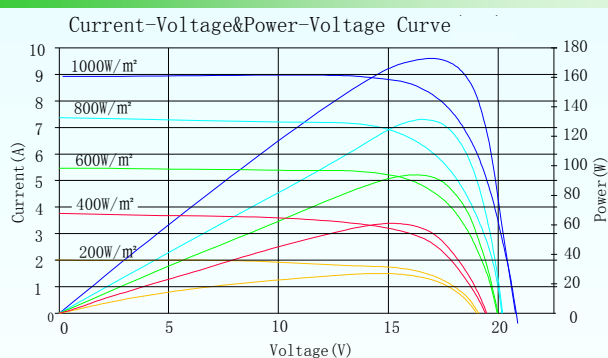
Engineering Drawings



Mechanical Characteristics

Solar cell	Poly-Crystalline 156*156
No. of cells	48(6×8)
Dimensions	1316mm*992mm*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 P _{max}	-0.47%/K
Temperature Coefficient of V _{OC}	-0.351%/K
Temperature Coefficient of I _{SC}	+0.035%/K