

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

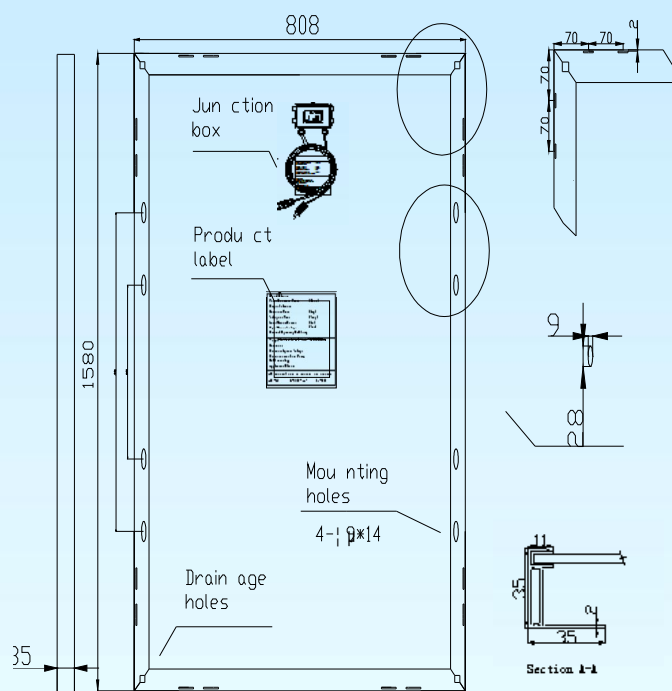
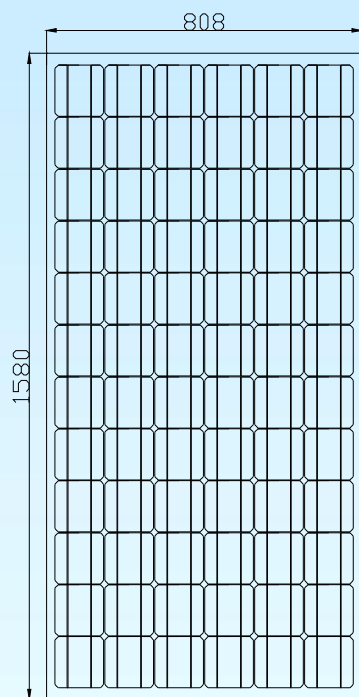
Certificates



Electrical Characteristics

Model		GS-180M	GS-190M	GS-200M	GS-205M
Maximum Power at STC	(Pamx)	180W	190W	200W	205W
Optimum Operating Voltage (Vmp)		36.89V	37.44V	37.77V	37.8V
Optimum Operating Current (Imp)		4.97A	5.18A	5.39A	5.52A
Open-Circuit Voltage	(Voc)	45.1V	44.86V	45.25V	45.36V
Short-Circuit Current	(Isc)	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/m²,Modules Temperature 25℃,AM=1.5					

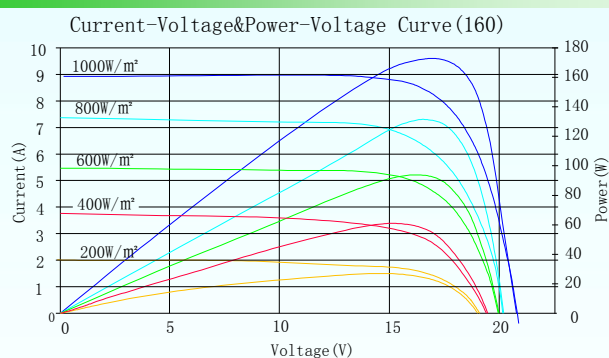
Engineering Drawings



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 P _{max}	-0.47%/K
Temperature Coefficient of V _{OC}	-0.351%/K
Temperature Coefficient of I _{SC}	+0.035%/K