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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Ningbo Green Light Energy Technology Co., Ltd.**

**GS-190M**

**GS-200M**

Also available on the web at  
[EnergyPal.com/ningbo-green-light-energy-technology-co-ltd-solar-panels/gs-200m](http://EnergyPal.com/ningbo-green-light-energy-technology-co-ltd-solar-panels/gs-200m)

# 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

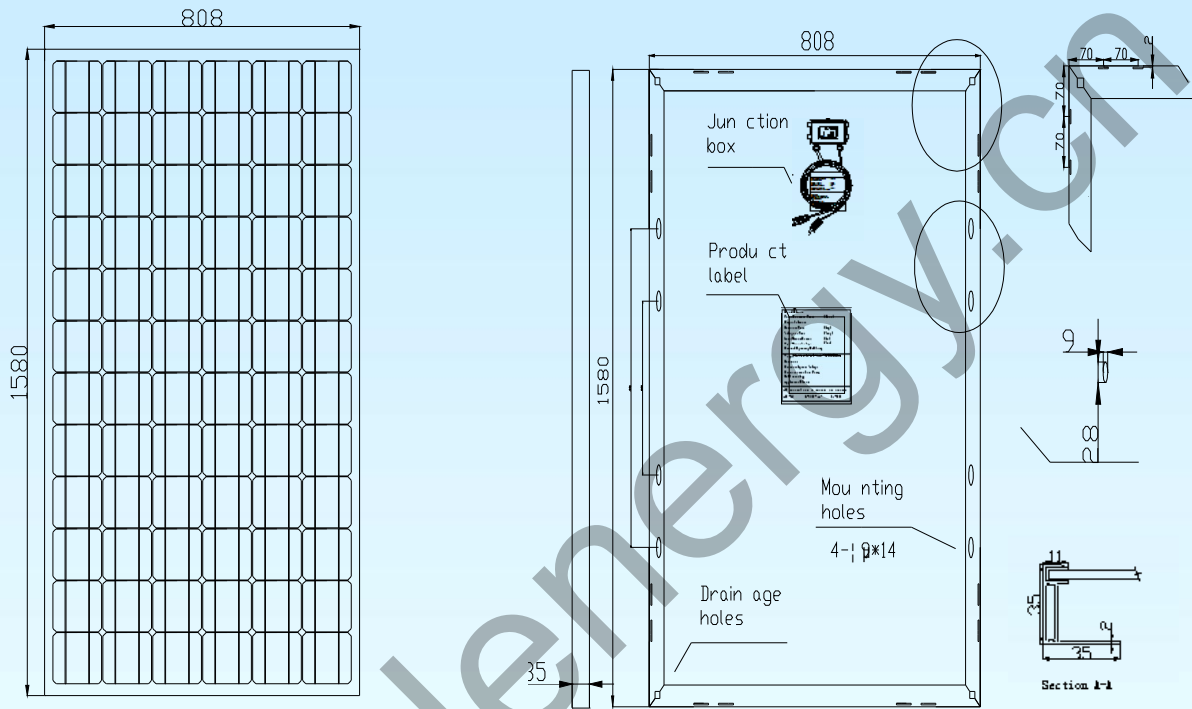
### Certificates



### Electrical Characteristics

Model	GS-180M	GS-190M	GS-200M	GS-205M
Maximum Power at STC (P <sub>max</sub> )	180W	190W	200W	205W
Optimum Operating Voltage (V <sub>mp</sub> )	36.89V	37.44V	37.77V	37.8V
Optimum Operating Current (I <sub>mp</sub> )	4.97A	5.18A	5.39A	5.52A
Open-Circuit Voltage (V <sub>oc</sub> )	45.1V	44.86V	45.25V	45.36V
Short-Circuit Current (I <sub>sc</sub> )	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/m <sup>2</sup> ,Modules Temperature 25℃,AM=1.5				

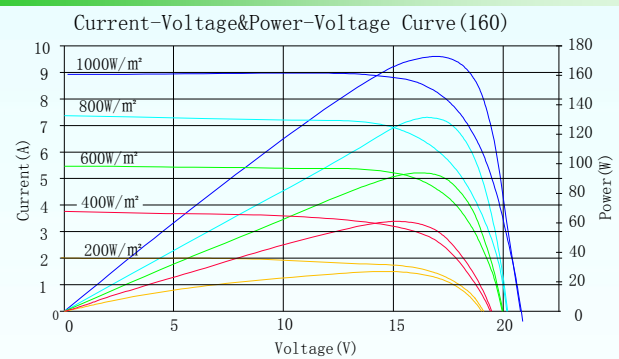
## Engineering Drawings



## 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 <sup>2</sup> , 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 <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