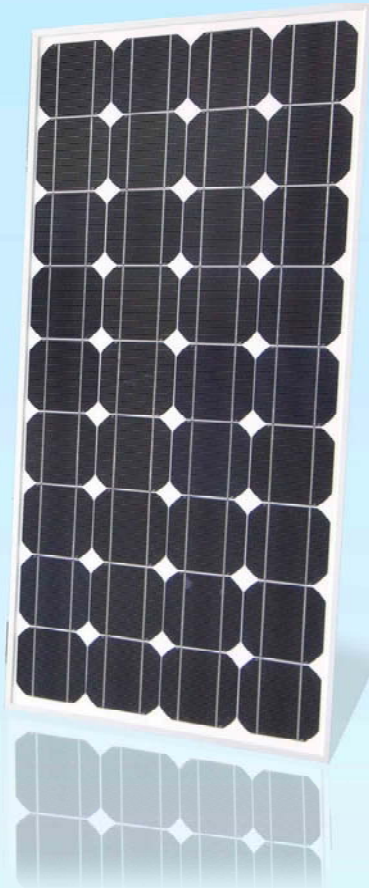


## Photovoltaic Module

### Monocrystalline

#### MGS-100S5-18



### Quality and Safety

- \*Rigorous quality control meeting the highest international standards
- \*High-transmissivity low-iron tempered glass, strong aluminium frame Using UV-resistant silicon
- \*ISO 9001:2008 、 ISO 14001:2004 and OHSAS18001
- \*

### 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

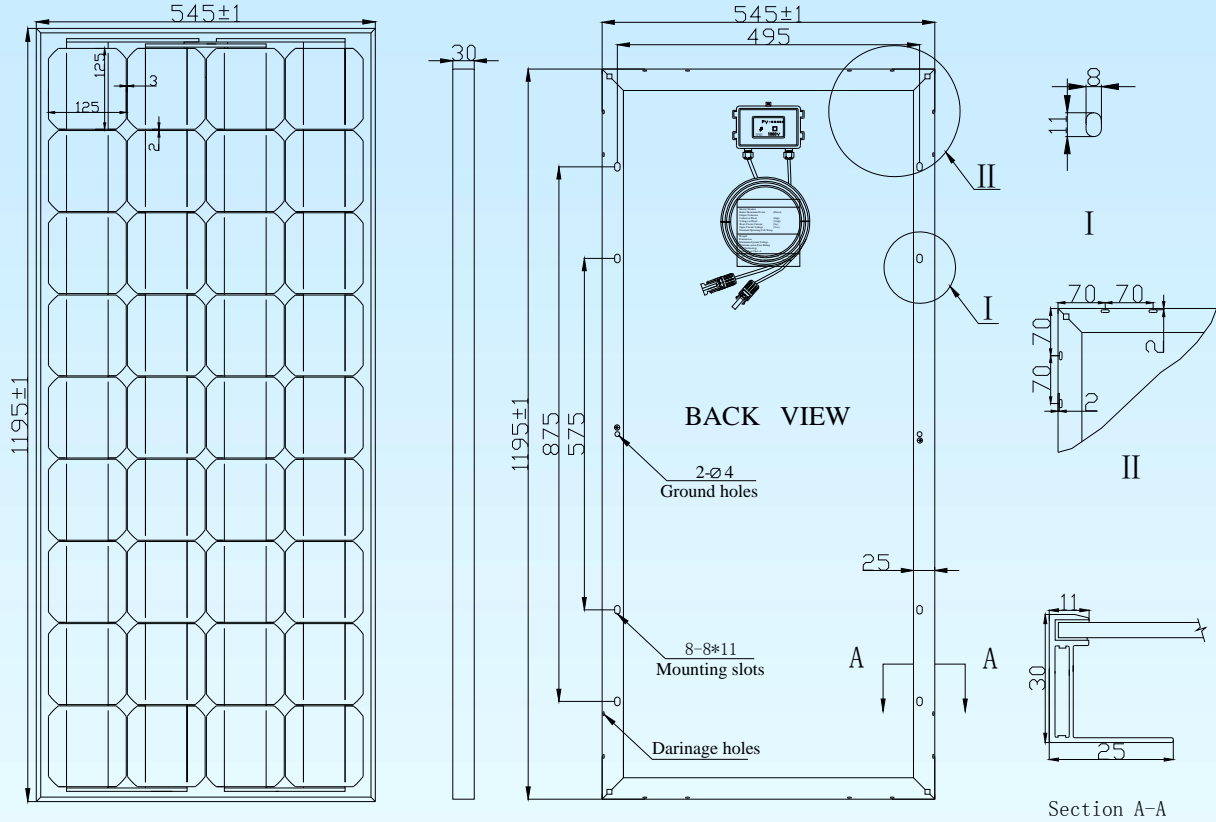
### Warranties

- \*10 years limited product warranty
- \*10 years at 90% of the minimal rated power output
- \*25 years at 80% of the minimal rated power output

### Electrical Characteristics

Model	MGS-85S5-18	MGS-90S5-18	MGS-95S5-18	MGS-100S5-18
Maximum Power at STC (Pmax)	85W	90W	95W	100W
Optimum Operating Voltage (Vmp)	18.11V	18.13V	18.15V	18.16V
Optimum Operating Current (Imp)	4.693A	4.965A	5.233A	5.506A
Open-Circuit Voltage (Voc)	22.07V	22.09V	22.11V	22.13V
Short-Circuit Current (Isc)	5.204A	5.505A	5.805A	6.107A
Solar Cell Efficiency (%)	16.18	17.11	18.05	18.98
Solar Module Efficiency (%)	13.05	13.82	14.59	15.35
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				

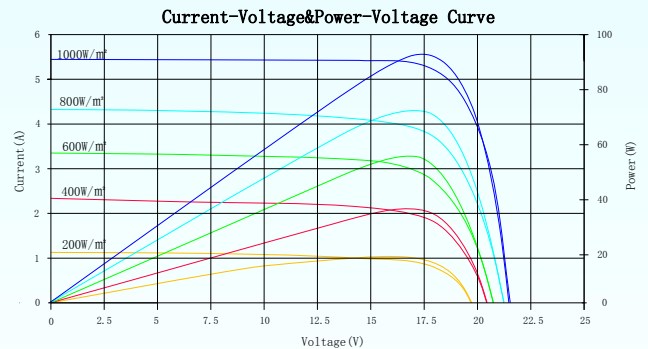
## Engineering Drawings



## Mechanical Characteristics

Solar cell	Mono-Crystalline 125*125mm
No. of cells	36(4x9)
Dimensions	1195mm*545mm*35mm
Weight	8kg
Front glass	3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction box	PV-*****
Connector	Plug and socket
Output cables	PV 4.0mm <sup>2</sup> , 0.9m
1*20'	756pcs
1*40'	1557pcs
1*40'HQ	1800pcs

## IV-Curves



## Temperature Coefficient

Nominal Operating Cell Temperature (NOCT)	47°C +/- 2°C
Temperature Coefficient of Pmax	-0.4384%/°C
Temperature Coefficient of VOC	-0.3324%/°C
Temperature Coefficient of ISC	+0.0461%/°C