

# Photovoltaic Module

## Monocrystalline36

### KEY FEATURES



High module efficiency through superior manufacturing technology



No power loss thanks to improved temperature co-efficient caused by 5 busbar solar cell



Strictly control the micro-crack of solar cells and the other non visible defect of internal modules



Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa



Manufactured according to and certified international I Quality and Environment Management System



Using advanced low reflection and high light transmission glass and cell sheet surface cutting technology, in the weak light environment can also play a good performance.



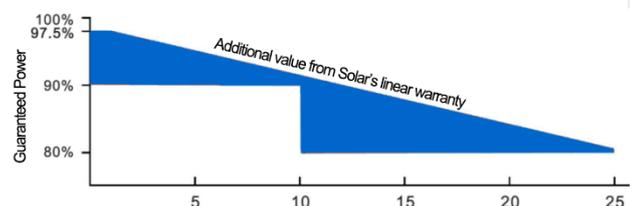
### Certificates

- IEC61215, IEC61730, CQC, CE, TUV
- ISO9001:2008
- ISO14001:2004
- BSOHSAS18001:2007



### Warranties

- 10 years product warranty
- 25 years power warranty

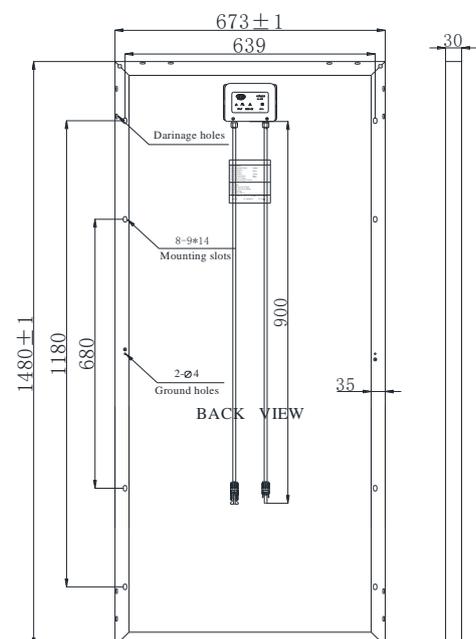
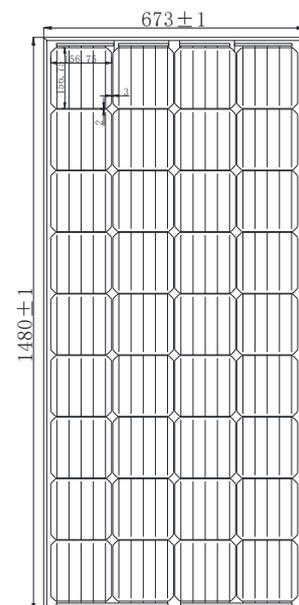


## Electrical Characteristics

| Model  | SH-160S6-12 | SH-165S6-12 | SH-170S6-12 | SH-175S6-12 | SH-180S6-12 |
|--|-------------|-------------|-------------|-------------|-------------|
| Maximum Power at STC(Pmax)   | 160W        | 165W        | 170W        | 175W        | 180W        |
| Optimum Operating Voltage (Vmp)                                      | 18.92V      | 18.99V      | 19.06V      | 19.13V      | 19.21V      |
| Optimum Operating Current (Imp)                                      | 8.458A      | 8.689A      | 8.918A      | 9.146A      | 9.370A      |
| Open-Circuit Voltage (Voc)   | 23.31V      | 23.38V      | 23.45V      | 23.53V      | 23.61V      |
| Short-Circuit Current (Isc)  | 10.012A     | 10.261A     | 10.409A     | 10.455A     | 10.509A     |
| Solar Cell Efficiency (%)  | 18.60       | 19.18       | 19.76       | 20.34       | 20.96       |
| Solar Module Efficiency (%)  | 16.06       | 16.57       | 17.07       | 17.57       | 18.07       |
| Operating Temperature  | -40to85°C   |             |             |             |             |
| Maximum System Voltage   | DC1000      |             |             |             |             |
| Maximum Series Fuse Rating   | 15A         |             |             |             |             |
| Power Tolerance  | 0~+3%       |             |             |             |             |
| STC:Irradiance 1000W/m <sup>2</sup> ,Modules Temperature 25°C,AM=1.5 |             |             |             |             |             |

## Temperature Coefficient and Mechanical Characteristics Engineering Drawings

|   |                             |
|---|-----------------------------|
| Nominal Operating Cell Temperature (NOCT) | 45°C+/-2°C                  |
| Temperature Coefficient of Pmax           | -0.41%/°C                   |
| Temperature Coefficient of VOC            | -0.34%/°C                   |
| Temperature Coefficient of ISC            | +0.06%/°C                   |
| Solar cell                                | Mono156.75*156.75mm         |
| No.of cells                               | 36 (4*9)                    |
| Dimensions                                | 1480mm*673mm*30mm           |
| Weight                                    | 11kg                        |
| 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'                                     | 490pcs                      |
| 1*40'                                     | 1050pcs                     |
| 1*40'HQ                                   | 1260pcs                     |



## IV-Curves

