



### 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 at 90% of the minimal rated power output
- ✳️ 25 years at 80% of the minimal rated power output

### Certificates



### Electrical Characteristics

|   |           |
|---|-----------|
| Model   | MEGS-50P  |
| Maximum Power at STC (P <sub>max</sub> )                                | 50W       |
| Optimum Operating Voltage (V <sub>mp</sub> )                            | 17.5V     |
| Optimum Operating Current (I <sub>mp</sub> )                            | 2.858A    |
| Open-Circuit Voltage (V <sub>oc</sub> )                                 | 21.60V    |
| Short-Circuit Current (I <sub>sc</sub> )                                | 3.120A    |
| Solar Cell Efficiency (%)   | 17.6      |
| Solar Module Efficiency (%)   | 13.82     |
| 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 |           |

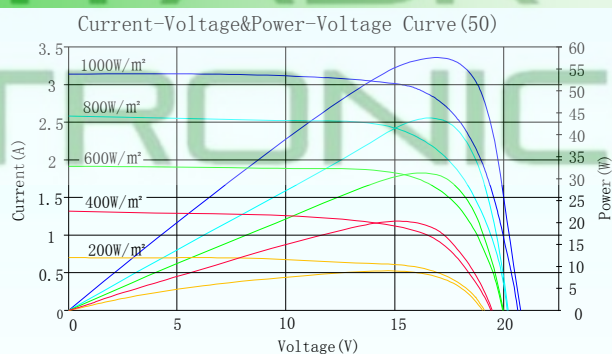
## Engineering Drawings



## Mechanical Characteristics

|               |                           |
|---------------|---------------------------|
| Solar cell    | Poly-Crystalline 156*52mm |
| No. of cells  | 36(4×9)                   |
| Dimensions    | 540mm*670mm*30mm          |
| Weight        | 5.1kg                     |
| Front glass   | 3.2mm tempered glass      |
| Frame         | Anodized aluminium alloy  |
| Junction box  | PV-LH0801                 |
| Connector     | /                         |
| Output cables | /                         |
| 1*20'         | /                         |
| 1*40'         | /                         |
| 1*40'HQ       | /                         |

## IV-Curves



## Temperature Coefficient

|   |            |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 47°C ± 2°C |
| Temperature Coefficient of Pmax           | -0.47%/K   |
| Temperature Coefficient of VOC            | -0.351/K   |
| Temperature Coefficient of ISC            | +0.035/K   |