

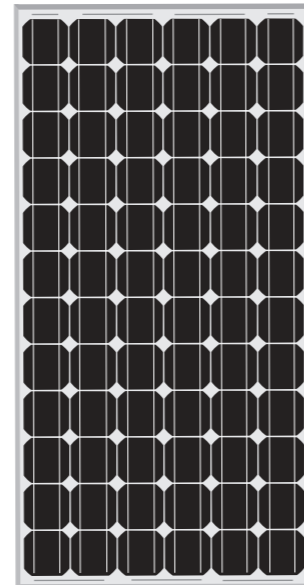
Photovoltaic Modules

Photovoltaic modules
72pcs 156×156mm mono-crystalline silicon cell

GPM280-B-72

The GPM280 series module consists of 72pcs156×156mm mono-crystalline silicon solar cells which are in high efficiency, individually characterized and electronically matched before interconnection. Laminated with high quality toughened glass, EVA and TPT, characteristic operation of solar cells can be ensured under any climatic conditions.

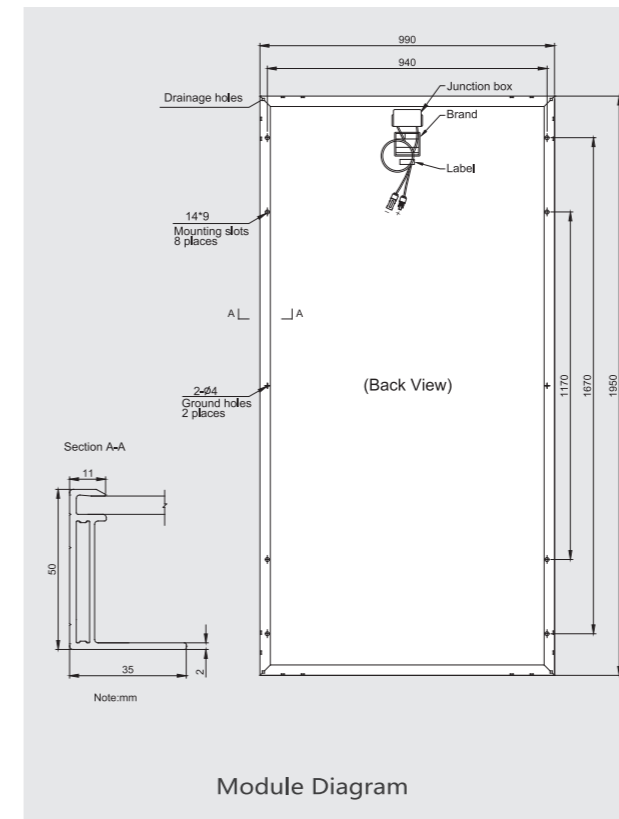
After assembled by anodized aluminum alloy frame and junction box with MC connectors, the GPPV solar modules are designed for long service life, easy to install, withstand the storm, high wind and hail impact etc.



Photovoltaic Modules

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GPM280-B-72



Specifications

| | |
|------------------------------|---|
| Cell | Mono-crystalline silicon solar cells 156mm×156mm |
| No. of cells and connections | 72(6×12) |
| Dimension of module | 1950mm×990mm×50mm |

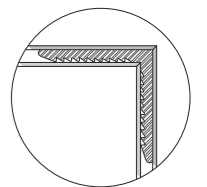
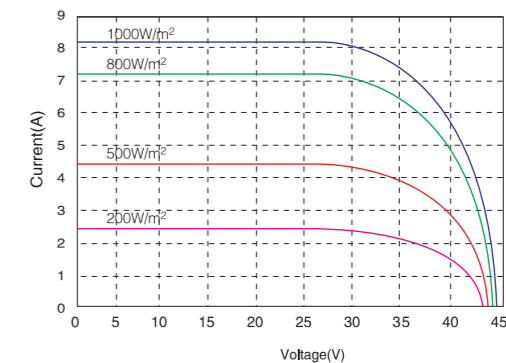
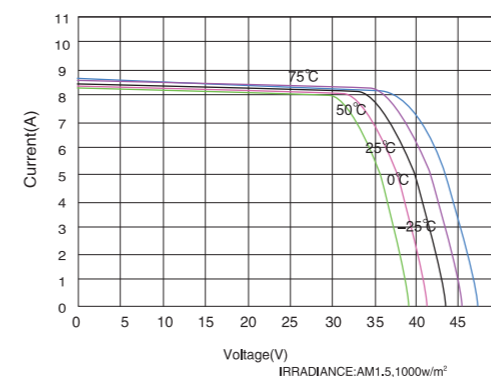
Temperature Coefficients

| | | |
|---|-------------------|-----------|
| Nominal Operating Cell Temperature | | 45°C±2°C |
| Short-circuit current temperature coefficient | $\alpha(I_{sc})$ | 0.09%/°C |
| Open-circuit voltage temperature coefficient | $\beta(V_{oc})$ | -0.34%/°C |
| Peak power temperature coefficient | $\gamma(P_{max})$ | -0.37%/°C |

above data is only for reference
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Output

| | |
|-----------|--------------------------|
| Cable | 4.0mm ² (TUV) |
| Lengths | 1100mm |
| Connector | MC Type |



| Module | | GPM280-B-72 | | | | | | | | | | | |
|-----------------------------|----|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| Encapsulation | | Glass/EVA/Cells/ EVA/TPT | | | | | | | | | | | |
| Size and Number of cells | | 156mm×156mm 72/6×12pcs | | | | | | | | | | | |
| Maximum Power (Pmax) | W | 240 | 245 | 250 | 255 | 260 | 265 | 270 | 275 | 280 | 285 | 290 | |
| Power Tolerance | | ± 3% | | | | | | | | | | | |
| Open Circuit Voltage (Voc) | V | 43.6 | 43.8 | 44.0 | 44.2 | 44.3 | 44.3 | 44.6 | 44.6 | 44.8 | 44.8 | 44.8 | |
| Short Circuit Current (Isc) | A | 7.65 | 7.75 | 7.87 | 7.98 | 8.02 | 8.08 | 8.12 | 8.28 | 8.33 | 8.38 | 8.41 | |
| Maximum Power Voltage (Vmp) | V | 34.4 | 34.5 | 34.7 | 34.8 | 34.8 | 34.9 | 35.0 | 35.2 | 35.3 | 35.5 | 35.7 | |
| Maximum Power Current (Imp) | A | 6.98 | 7.10 | 7.23 | 7.33 | 7.47 | 7.59 | 7.71 | 7.81 | 7.93 | 8.03 | 8.12 | |
| Max.syst. Oper. voltage | V | 1000V | | | | | | | | | | | |
| Diodes | | 6 by-pass | | | | | | | | | | | |
| Dimension | mm | 1950×990×50 | | | | | | | | | | | |
| Weight | kg | 24 | | | | | | | | | | | |
| Operate Temp. scope | °C | -40/+85 | | | | | | | | | | | |
| Relative humidity | | 0 to 100% | | | | | | | | | | | |
| Resistances | | 227g steel ball fall down from 1m height and 60m/s wind | | | | | | | | | | | |
| Warranty | | Pm is not less than 90% in 10 years and 80% in 25 years | | | | | | | | | | | |

Test condition: @STC 1000W/m², AM1.5, 25°C