

Photovoltaic Modules

| Module | GPM70-100W(36) | | | | | | |
|----------------------------------|------------------------------|-------------------------|-------|-------|-------------------------|-------|-------|
| Encapsulation | Glass/EVA/Cell/EVA/Backsheet | | | | | | |
| Maximum Power Pmax | W | 70 | 75 | 80 | 90 | 95 | 100 |
| Maximum Power Voltage (Vmp) | V | 18.40 | 18.60 | 18.80 | 18.20 | 18.40 | 18.60 |
| Maximum Power Current (Imp) | A | 3.80 | 4.03 | 4.25 | 4.95 | 5.16 | 5.38 |
| Open Circuit Voltage (Voc) | V | 22.08 | 22.32 | 22.56 | 21.84 | 22.08 | 22.32 |
| Short Circuit Current (Isc) | A | 4.57 | 4.84 | 5.10 | 5.93 | 6.20 | 6.45 |
| Cell Efficiency | % | 16.30 | 17.50 | 18.20 | 16.20 | 16.90 | 17.80 |
| Module Efficiency | % | 14.80 | 14.90 | 15.20 | 14.98 | 15.00 | 15.30 |
| Tolerance | | | 0+3% | | | 0+3% | |
| Max System Open Circuit Voltage | | | 600V | | | 600V | |
| Junction Box (protection degree) | | | ≥IP67 | | | ≥IP67 | |
| Dimension | | 780*680*30mm | | | 1200*550*35mm | | |
| Weight | | 5.6kg | | | 7.1kg | | |
| Operate Temperature Scope | | -40/+85°C | | | -40/+85°C | | |
| Relative Humidity | | 0~100% | | | 0~100% | | |
| Frame Thinkness | | 30mm | | | 35mm | | |
| Frame Colour | | Gold/Brown/Black/Silver | | | Gold/Brown/Black/Silver | | |

Standard Test Conditions(STC): irradiance 1,000 W/m²; AM 1.5; module temperature 25°C. Measuring uncertainty of power is within ±3%. Tolerance of Pmp: 0~+3%. Certified in accordance with IEC61215,IEC61730-1/2.

Temperature Coefficients

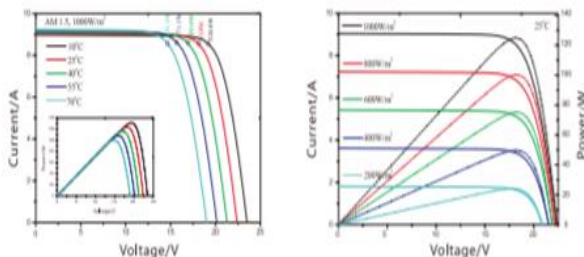
| NOCT | 45°C±2°C | |
|---|-------------------|--------------------|
| Short Circuit Current Temperature Coefficients | $\alpha(I_{sc})$ | +0.059%/°C |
| Open Circuit Voltage Temperature Coefficients | $\beta(V_{oc})$ | -0.330%/°C |
| Peak Power Temperature Coefficients | $\gamma(P_{max})$ | -0.410%/°C |
| Nominal Operating Cell Temperature(NOCT) : 45°C±2°C | | |
| Output | | |
| Cable 4.0mm ² (TUV) | Length 900mm | Connector MC4 type |

Advantage

G&P series modules consist of **mono-crystalline** high efficient silicon cells, which are individually characterized and electronically matched before interconnection and laminated with toughened glass, EVA&Backsheet of high quality.

After assembled with anodized aluminum alloy frame, cable and junction box with MC4 connectors, G&P solar modules can be installed easily and work for a long period. At the same time, they can withstand the storm, strong wind and hail impact, etc.

I-V Curves



Dimensions

