

Photovoltaic Modules

| Module | GPM140-160W(36) | | | | | |
|----------------------------------|------------------------------|-------|-------|-------|-------|-------|
| Encapsulation | Glass/EVA/Cell/EVA/Backsheet | | | | | |
| Maximum Power Pmax | W | 140 | 145 | 150 | 155 | 160 |
| Maximum Power Voltage (Vmp) | V | 18.20 | 18.40 | 18.60 | 18.60 | 18.80 |
| Maximum Power Current (Imp) | A | 7.69 | 7.88 | 8.06 | 8.33 | 8.51 |
| Open Circuit Voltage (Voc) | V | 21.84 | 22.08 | 22.32 | 22.32 | 22.56 |
| Short Circuit Current (Isc) | A | 9.23 | 9.46 | 9.68 | 10.00 | 10.21 |
| Cell Efficiency | % | 16.30 | 16.70 | 17.40 | 17.60 | 18.20 |
| Module Efficiency | % | 15.79 | 15.80 | 15.85 | 15.89 | 15.95 |
| Tolerance | 0+3% | | | | | |
| Max System Open Circuit Voltage | 600V | | | | | |
| Junction Box (protection degree) | ≥IP67 | | | | | |
| Dimension | 1480*680*35mm | | | | | |
| Weight | 10.5kg | | | | | |
| Operate Temperature Scope | -40/+85°C | | | | | |
| Relative Humidity | 0~100% | | | | | |
| Frame Thickness | 35mm | | | | | |
| Frame Colour | 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 |

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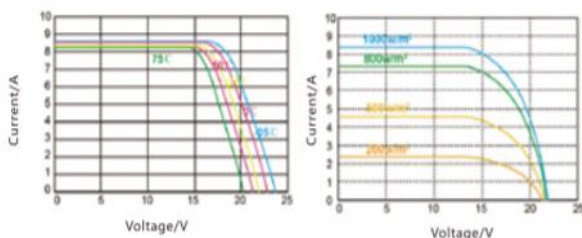
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Advantage

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

