

## Photovoltaic Modules

Module	GPM250-290W(60)						
Encapsulation	Glass/EVA/Cell/EVA/Backsheet						
Size and Number of cells	156*mm*156mm 60/6*10pcs						
Maximum Power Pmax	W	250	260	270	275	280	290
Maximum Power Voltage (Vmp)	V	30.31	30.81	31.33	31.54	31.74	31.85
Maximum Power Current (Imp)	A	8.25	8.44	8.62	8.72	8.82	9.15
Open Circuit Voltage (Voc)	V	37.72	38.08	38.46	38.58	38.65	39.80
Short Circuit Current (Isc)	A	8.76	8.92	9.09	9.18	9.32	9.55
Cell Efficiency	%	17.12	17.80	18.49	18.83	19.18	19.86
Module Efficiency	%	15.29	15.91	16.46	16.72	17.01	17.80
Tolerance	0+3%						
Max System Open Circuit Voltage	1000V						
Max Series Fuse Rating	15A						
Junction Box (protection degree)	≥IP67						
Dimension	1640*992*35mm						
Weight	18.5kg						
Operate Temperature Scope	-40/+85°C						
Relative Humidity	0~100%						
Frame Thickness	35/40/45/50mm						
Frame Colour	Gold/Brown/Black/Silver						

Standard Test Conditions[STC]: irradiance 1,000 W/m<sup>2</sup>; 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

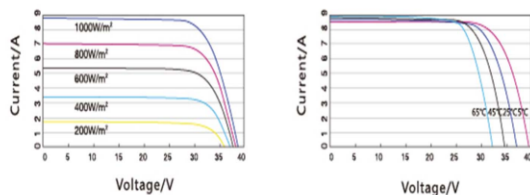
NOCT	45°C±2°C	
Short Circuit Current Temperature Coefficients	$\alpha(I_{sc})$	+0.059%/°C
Open Circuit Voltage Temperature Coefficients	$\beta(V_{oc})$	-0.330%/°C
Peak Power Temperature Coefficients	$\gamma(P_{max})$	-0.410%/°C
Nominal Operating Cell Temperature(NOCT) : 45°C±2°C		
<b>Output</b>		
Cable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

