

## Photovoltaic Modules

Module	GPP70-100W(36)						
Encapsulation	Glass/EVA/Cell/EVA/Backsheet						
Maximum Power Pmax	W	70	75	80	90	95	100
Maximum Power Voltage (Vmp)	V	17.90	18.00	18.50	17.50	17.90	18.30
Maximum Power Current (Imp)	A	3.91	4.17	4.32	5.14	5.31	5.46
Open Circuit Voltage (Voc)	V	22.02	22.14	22.76	21.53	22.02	22.51
Short Circuit Current (Isc)	A	4.22	4.50	4.67	5.55	5.73	5.90
Cell Efficiency	%	16.00	17.20	18.30	15.50	16.30	17.20
Module Efficiency	%	14.86	14.93	15.02	14.62	14.68	14.73
Tolerance		0+3%			0+3%		
Max System Open Circuit Voltage		600V			600V		
Junction Box (protection degree)		≥IP67			≥IP67		
Dimension		780*680*30mm			1030*680*35mm		
Weight		5.6kg			7.3kg		
Operate Temperature Scope		-40/+85°C			-40/+85°C		
Relative Humidity		0~100%			0~100%		
Frame Thickness		30mm			35mm		
Frame Colour		Gold/Brown/Black/Silver			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

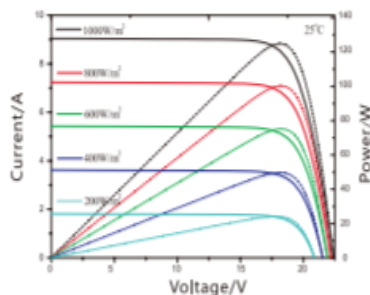
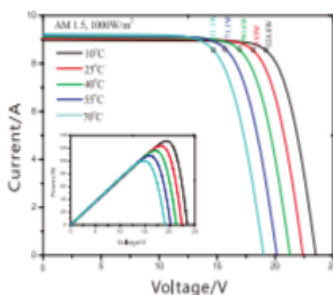
NOCT	45°C±2°C	
Short Circuit Current Temperature Coefficients	α(Isc)	+0.045%/°C
Open Circuit Voltage Temperature Coefficients	β(Voc)	-0.292%/°C
Peak Power Temperature Coefficients	γ(Pmax)	-0.408%/°C
Nominal Operating Cell Temperature(NOCT) : 45°C±2°C		
Output		
Cable 4.0mm <sup>2</sup> (TUV)	Length 900mm	Connector MC4 type

## Advantage

G&P series modules consist of **poly-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

