

## Photovoltaic Modules

Module	GPM30-65W(36)							
Encapsulation	Glass/EVA/Cell/EVA/Backsheet							
Maximum Power Pmax	W	30	35	40	45	50	60	65
Maximum Power Voltage (Vmp)	V	18.00	18.00	18.00	18.20	18.40	18.00	18.20
Maximum Power Current (Imp)	A	1.67	1.94	2.22	2.47	2.72	3.33	3.57
Open Circuit Voltage (Voc)	V	21.60	21.60	21.60	21.84	22.08	21.60	21.84
Short Circuit Current (Isc)	A	2.00	2.33	2.67	2.97	3.26	4.00	4.29
Cell Efficiency	%	16.00	16.20	15.10	16.10	17.80	14.90	15.20
Module Efficiency	%	14.60	14.27	14.70	14.75	14.80	14.20	14.50
Tolerance	0+3%							
Max System Open Circuit Voltage	600V							
Junction Box (protection degree)	≥IP67							
Dimension	650*360*25mm		675*460*25mm		675*540*25mm		840*550*25mm	
Weight	2.4kg		3.2kg		4.5kg		5.1kg	
Operate Temperature Scope	-40/+85°C							
Relative Humidity	0~100%							
Frame Thinkness	25mm							
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 Pmpp: 0~+3%. Certified in accordance with IEC61215,IEC61730-1/2.

## Temperature Coefficients

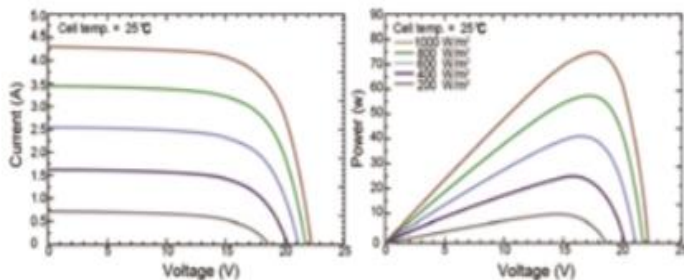
NOCT	45°C±2°C	
Short Circuit Current Temperature Coefficients	$\alpha(I_{sc})$	+0.10 %/°C
Open Circuit Voltage Temperature Coefficients	$\beta(V_{oc})$	-0.38 %/°C
Peak Power Temperature Coefficients	$\gamma(P_{max})$	-0.47 %/°C
Nominal Operating Cell Temperature(NOCT) : 45°C±2°C		
<b>Output</b>		
Cable 2.5mm <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

