GPM170-180W(36)

Photovoltaic Modules

Module		GPM170-180W(36)	
Encapsulation		Glass/EVA/Cell/EVA/Backsheet	
Maximum Power Pmax	W	170	180
Maximum Power Voltage (Vmp)	V	18.85	18.95
Maximum Power Current (Imp)	A	9.02	9.50
Open Circuit Voltage (Voc)	V	22.62	22.74
Short Circuit Current (Isc)	A	9.47	9.98
Cell Efficiency	%	18.68	19.18
Module Efficiency	%	17.06	18.08
Tolerance		0+3%	
Max System Open Circuit Voltage		600V	
Junction Box（protection degree）		≥IP67	
Dimension		1500*680*35mm	
Weight		10.6kg	
Operate Temperature Scope		-40/+85℃	
Relative Humidity		0~100%	
Frame Thinkness		35mm	
Frame Colour		Black/Silver	

Standard Test Conditions[STC]: irradiance 1,000 W/m²; AM 1,5; module temperature 25℃. Measuring uncertainty of power is within ±3%.
Tolerance of Pmpp: 0~+3%. Certified in accordance with IEC61215,IEC61730-1/2.

Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)		45℃±2℃
Short Circuit Current Temperature Coefficients	α(Isc)	+0.059%/℃
Open Circuit Voltage Temperature Coefficients	β(Voc)	-0.330%/℃
Peak Power Temperature Coefficients	γ(Pmax)	-0.410%/℃

Output

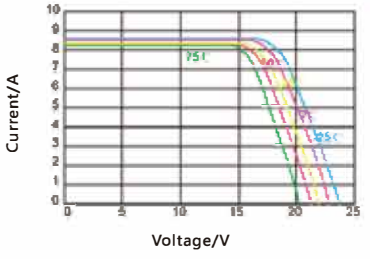
Cable 4.0mm²(TUV)	Length 900mm	Connector MC4 type

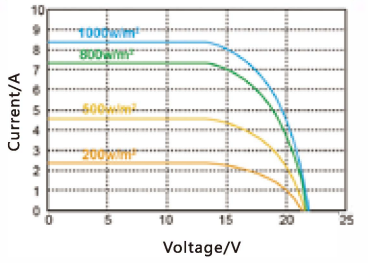
Advantage

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.

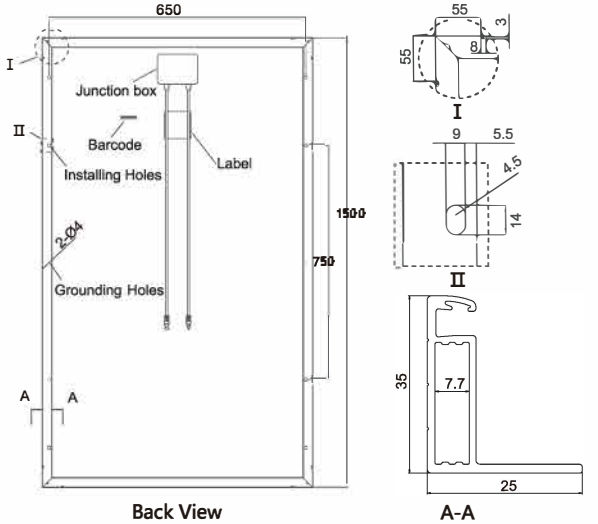
After assembled with anodized aluminum alloy frame, cable and junction box with MC4 connectors,G&P solar modules can be installed easily and work for a long period. At the same time,they can withstand the storm,strong wind and hail impact,etc.

I-V Curves





Dimensions



GPP160-180W(36)

Photovoltaic Modules

Module		GPP160-180W(36)		
Encapsulation		Glass/EVA/Cell/EVA/Backsheet		
Maximum Power Pmax	W	160	170	180
Maximum Power Voltage (Vmp)	V	18.85	18.95	19.05
Maximum Power Current (Imp)	A	8.49	8.97	9.45
Open Circuit Voltage (Voc)	V	22.62	22.74	22.86
Short Circuit Current (Isc)	A	8.91	9.42	9.92
Cell Efficiency	%	17.20	17.88	18.56
Module Efficiency	%	15.90	16.89	17.78
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℃		
Relative Humidity		0~100%		
Frame Thinkness		35mm		
Frame Colour		Black/Silver		

Standard Test Conditions[STC]: irradiance 1,000 W/m²; AM 1,5; module temperature 25℃. Measuring uncertainty of power is within ±3%.
Tolerance of Pmpp: 0~+3%. Certified in accordance with IEC61215,IEC61730-1/2.

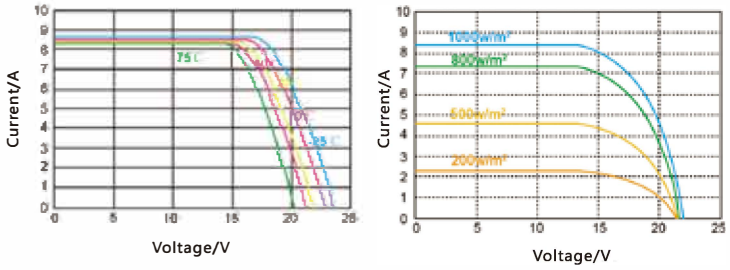
Temperature Coefficients

Nominal Operating Cell Temperature(NOCT)		45℃±2℃
Short Circuit Current Temperature Coefficients	α(Isc)	+0.045%/℃
Open Circuit Voltage Temperature Coefficients	β(Voc)	-0.292%/℃
Peak Power Temperature Coefficients	γ(Pmax)	-0.408%/℃

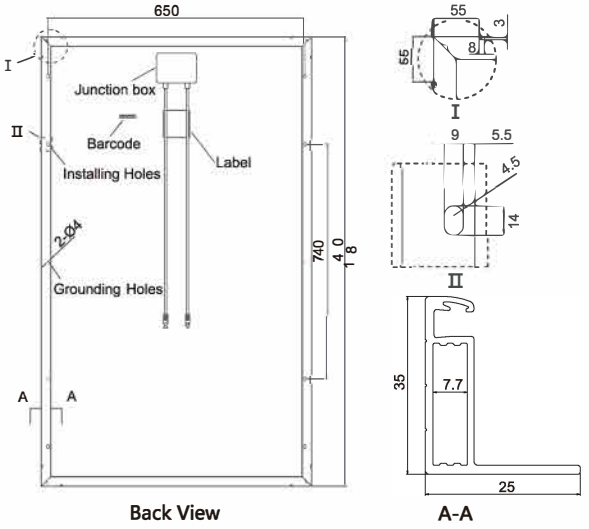
Output

Cable 4.0mm²(TUV)	Length 900mm	Connector MC4 type

I-V Curves



Dimensions



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.