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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Gi-Power New Energy Co., Ltd.**

**GP-120~100M-36**

**GP-120M-36**

Also available on the web at  
[EnergyPal.com/gi-power-new-energy-co-ltd-solar-panels/gp-120m-36](http://EnergyPal.com/gi-power-new-energy-co-ltd-solar-panels/gp-120m-36)



## Monocrystalline Module Models

GP-120M-36 GP-110M-36 GP-105M-36 GP-100M-36

## Electrical Specifications

\*STC : Irradiance 1000W/m<sup>2</sup>, AM1.5 spectrum, module temperature 25°C

Model type	GP-120M-36	GP-110M-36	GP-105M-36	GP-100M-36
Peak power (Pmax)	120W	110W	105W	100W
Cell Efficiency	21.55%	19.76%	18.86%	18.00%
Maximum power voltage (Vmp)	20.1V	19.3V	18.8V	18.1V
Maximum power current (Imp)	5.97A	5.70A	5.59A	5.52A
Open circuit voltage (Voc)	23.4V	22.8V	22.5V	22.0V
Short circuit current (Isc)	6.26A	6.00A	5.91A	5.85A
Power Tolerance				±3%
Maximum system voltage				1000V
Series fuse rating (A)				8
Number of bypass diode				1



## Temperature Coefficients

Current Temperature Coefficient $\alpha(I_{sc})$	0.03%/°C
Voltage Temperature Coefficient $\beta(V_{oc})$	-0.32%/°C
Power Temperature Coefficient	-0.42%/°C
Nominal Temperature Of Cells(NOTC)	46±2°C
Application Temperature Range	-40~+85°C

## Mechanical Characteristics

Dimensions:	1015 x 670 x 30mm (39.96x26.38x1.18 inch)
Weight:	8.0 kg (17.76lbs)
Solar Cells:	36 cells in series(4 x 9)
Construction:	High-transmission low-iron tempered glass , EVA, TPT/TPE
Frame:	Anodized aluminum is mainly for improving corrosion resistance. Color: silver

## Output (Optional)

Cable	LAPP(4 mm <sup>2</sup> )
Lengths	900mm(-) and 900mm(+)
Connector	MC Plug Type IV

## Module Warranty:

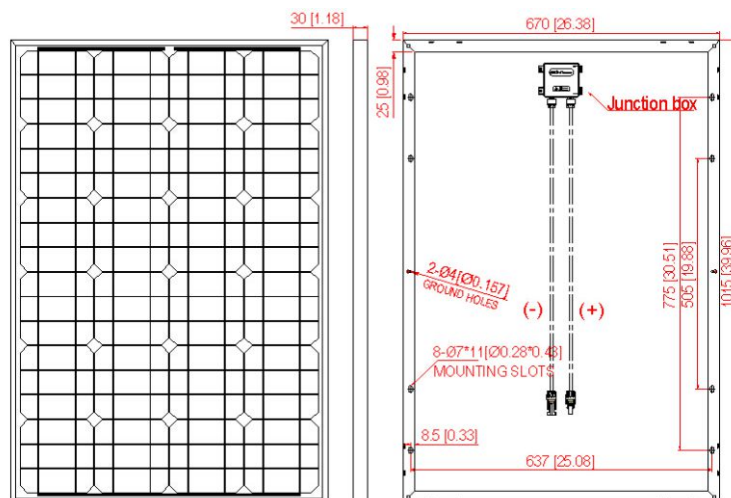
25-year limited warranty of 80% power output;

10-year limited warranty of 90% power output;

5-year limited warranty of materials and workmanship.

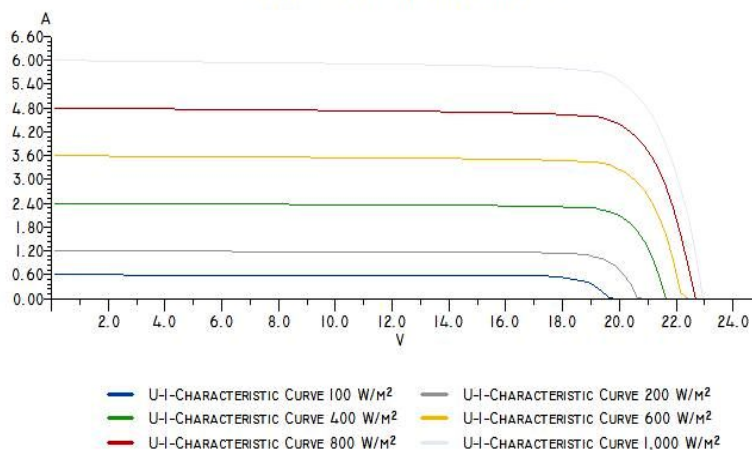
**Note:** This publication summarizes product warranty and Specifications which are subject to change without notice

Product photos are for reference only, on behalf of actual product.



Module Diagram

U-I-CHARACTERISTIC CURVE AT 25 °C



Electrical Performance