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EnergyPal

Solar Panel Guide Specification Data Sheet

Gi-Power New Energy Co., Ltd.

GP-090~085P-36

GP-090P-36

Also available on the web at
EnergyPal.com/gi-power-new-energy-co-ltd-solar-panels/gp-090p-36



Polycrystalline Module Models

GP-090P-36 GP-085P-36

Electrical Specifications

*STC : Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C

| Model type | GP-090P-36 | GP-085P-36 |
|-----------------------------|------------|------------|
| Peak power (Pmax) | 90W | 85W |
| Cell Efficiency | 17.70% | 17.72% |
| Maximum power voltage (Vmp) | 19.1V | 18.8V |
| Maximum power current (Imp) | 4.71A | 4.52A |
| Open circuit voltage (Voc) | 22.6V | 22.3V |
| Short circuit current (Isc) | 4.97A | 4.84A |
| Power Tolerance | | ±3% |
| Maximum system voltage | | 800V |
| Series fuse rating (A) | | 7 |
| Number of bypass diode | | 2 |



Temperature Coefficients

| | | |
|------------------------------------|------------------|-----------|
| Current Temperature Coefficient | $\alpha(I_{sc})$ | 0.08%/°C |
| Voltage Temperature Coefficient | $\beta(V_{oc})$ | -0.32%/°C |
| Power Temperature Coefficient | | -0.38%/°C |
| Nominal Temperature Of Cells(NOTC) | | 46±2°C |
| Application Temperature Range | | -40~+85°C |

Mechanical Characteristics

| | |
|---------------|---|
| Dimensions: | 870 x 670 x 30mm (34.25x26.38x1.18 inch) |
| Weight: | 6.2 kg (13.76lbs) |
| 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 ²) |
| Lengths | 900mm(-) and 900mm(+) |
| Connector | MC Plug Type IV |

Module Warranty:

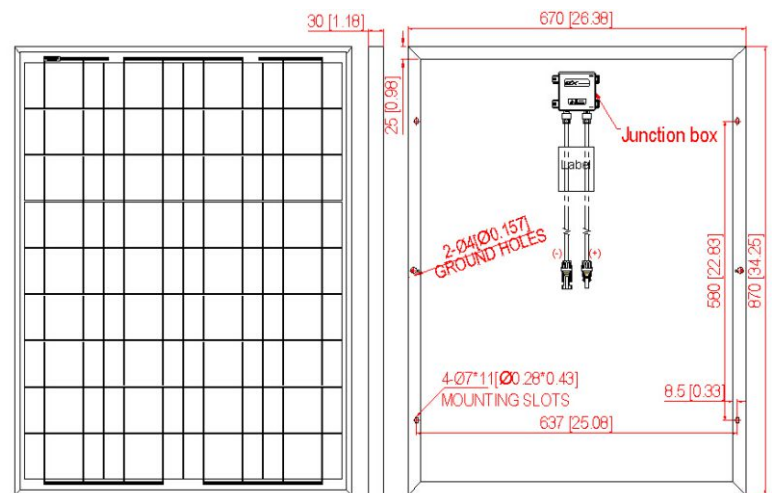
25-year limited warranty of 80% power output;

10-year limited warranty of 90% power output;

5-year limited warranty of materials and workmanship.

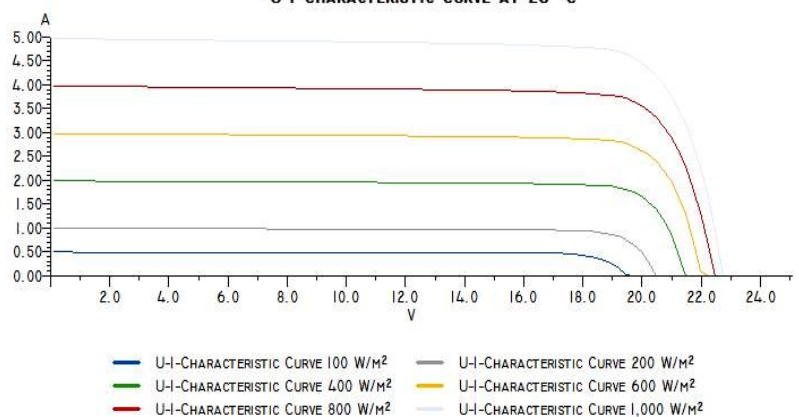
Note: This publication summarizes product warranty and Specifications which are subject to change without notice

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



Module Diagram

U-I-CHARACTERISTIC CURVE AT 25 °C



Electrical Performance