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Solar Panel Guide Specification Data Sheet

Gi-Power New Energy Co., Ltd.

GP-055-050P-36

GP-055P-36

Also available on the web at
EnergyPal.com/gi-power-new-energy-co-ltd-solar-panels/gp-055p-36

Polycrystalline Module Models

GP-055P-36 GP-050P-36

Electrical Specifications

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

Model type	GP-055P-36	GP-050P-36
Peak power (Pmax)	55W	50W
Cell Efficiency	19.40%	17.64%
Maximum power voltage (Vmp)	19.4V	18.3V
Maximum power current (Imp)	2.84A	2.73A
Open circuit voltage (Voc)	23.0V	22.2V
Short circuit current (Isc)	2.97A	2.90A
Power Tolerance	±3%	
Maximum system voltage	800V	
Series fuse rating (A)	4	
Number of bypass diode	2	

Temperature Coefficients

Current Temperature Coefficient α(Isc)	0.08%/°C
Voltage Temperature Coefficient β(Voc)	- 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:	540 x 670 x 25mm (21.26x26.38x0.98 inch)
Weight:	3.8 kg (8.44lbs)
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:

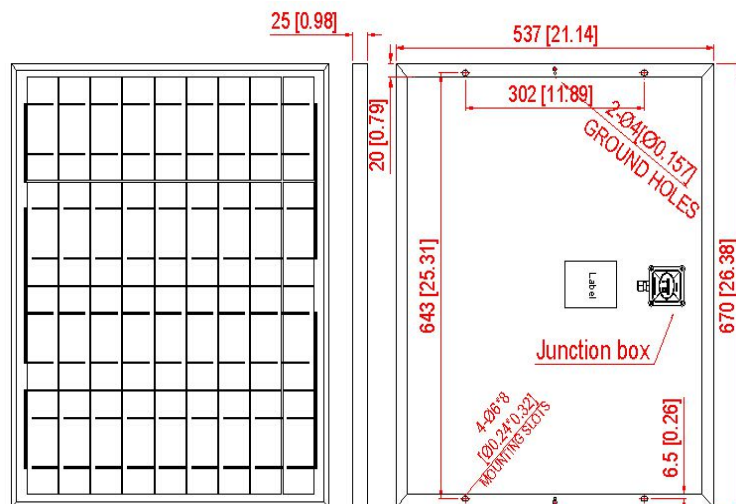
25-year limited warranty of 80% power output;

10-year limited warranty of 90% power output;

5-year limited warranty of materials and workmanship.

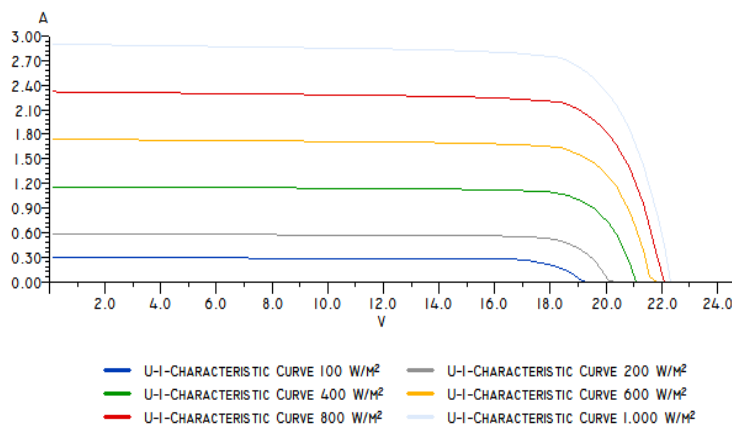
Note: This publication summarizes product warranty and Specifications which are subject to change without notice

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



Module Diagram

U-I-CHARACTERISTIC CURVE AT 25 °C



Electrical Performance