



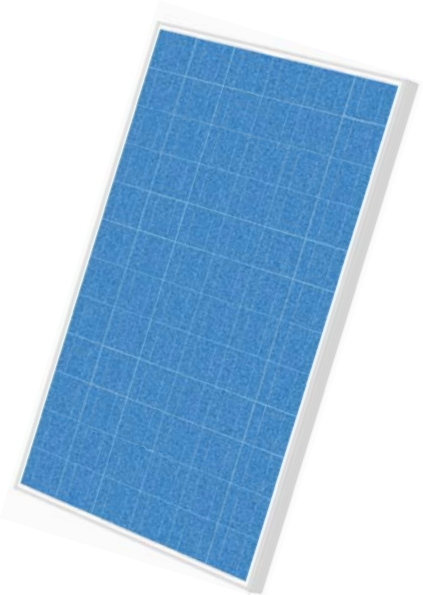
Polycrystalline Module Models

GP-310P-72 GP-300P-72 GP-290P-72

Electrical Specifications

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

Model type	GP-310P-72	GP-300P-72	GP-290P-72
Peak power (Pmax)	310W	300W	290W
Cell Efficiency	18.22%	17.64%	17.05%
Maximum power voltage (Vmp)	37.4V	36.8V	36.1V
Maximum power current (Imp)	8.29A	8.15A	8.03A
Open circuit voltage (Voc)	45.0V	44.5V	44.0V
Short circuit current (Isc)	8.82A	8.67A	8.52A
Power Tolerance		±3%	
Maximum system voltage		1000V	
Series fuse rating (A)		12	
Number of bypass diode		3/6	



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:	1956 x 992 x 45mm (77.01x39.06x1.77 inch)
Weight:	23.0 kg (50.60 lbs)
Solar Cells:	72 cells in series(6 x 12)
Construction:	High-transmission low-iron tempered glass , EVA, TPT
Frame:	Anodized aluminum is mainly for improving corrosion resistance. Color: silver

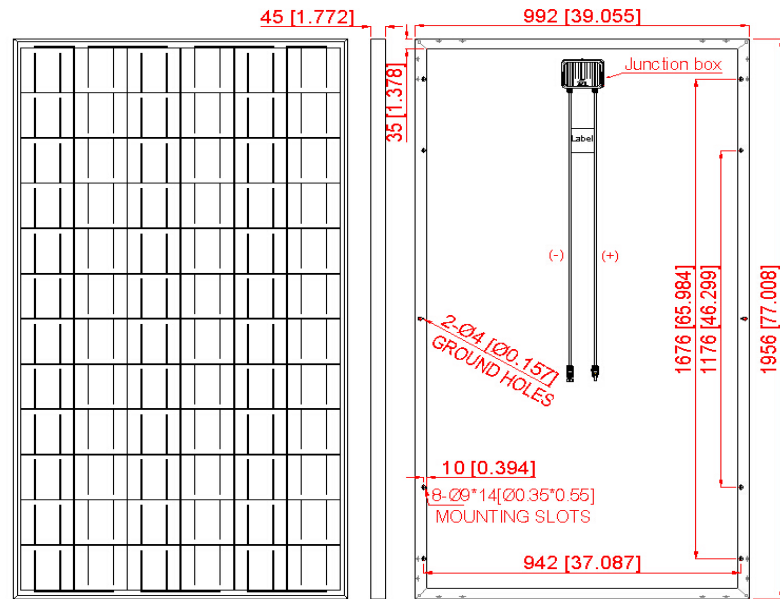
Output

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

Module Warranty:

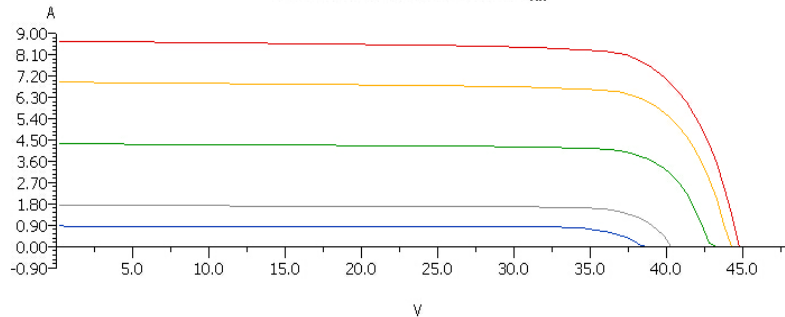
- 25-year limited warranty of 80% power output;
- 10-year limited warranty of 90% power output;
- 5-year limited warranty of materials and workmanship.

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



Module Diagram

U-I-Characteristic Curve at 25 癈



- U-I-Characteristic Curve 100 W/m
- U-I-Characteristic Curve 200 W/m
- U-I-Characteristic Curve 500 W/m
- U-I-Characteristic Curve 800 W/m
- U-I-Characteristic Curve 1,000 W/m

Electrical Performance