

GY310P-72

POLYCRYSTALLINE MODULE

290 Watt
300 Watt
310 Watt



Features

10
Year

10 years warranty on material and workmanship

17.0%

High cell conversion efficiency (up to 17.0%) ,
through superior manufacturing technology

+/-5%

+/-5% output tolerance

2400Pa

Module certified to withstand extreme Mechanical
loads (2400 Pascal)

LOW
TEMPERATURE

Low nominal operating cell temperature (NOCT) delivers
better power and performance over time

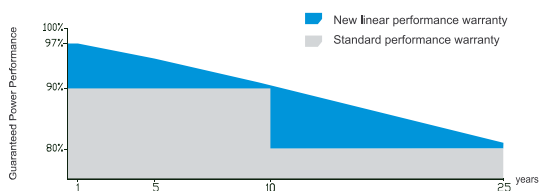
ISO

Quality and Environment Management System
(ISO9001, ISO14001)

100%

100% In-line Electroluminescence(EL) tested

Premium Performance Warranty



* Based on customer requirements and contract terms

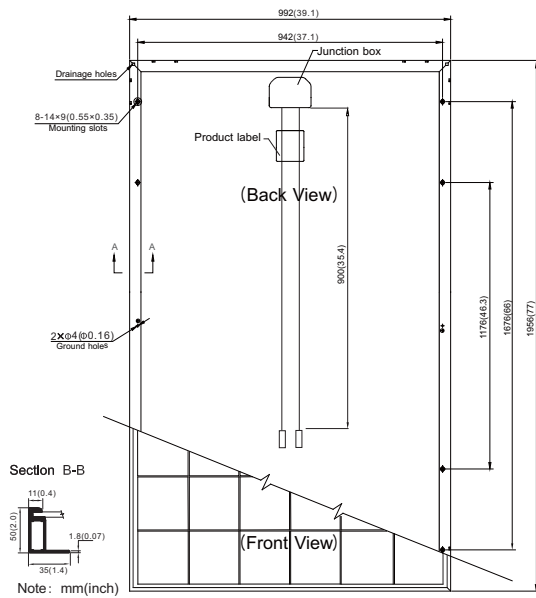
- Based on nominal power (P_{nom})
- 10 years guaranteed in 90% minimum power output
- 25 years guaranteed in 80% minimum power output



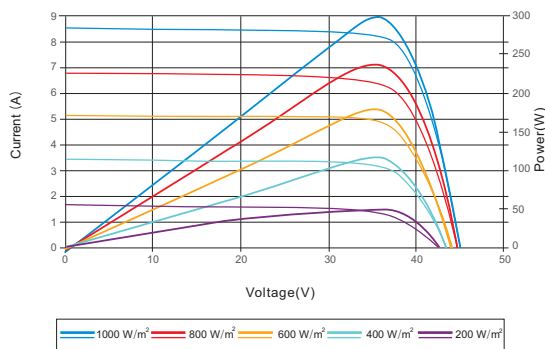
Certifications and standards:

- ISO9001:2008, ISO14001:2004 certified factory
- IEC61215, IEC61730, CE certified products

Engineering Drawings

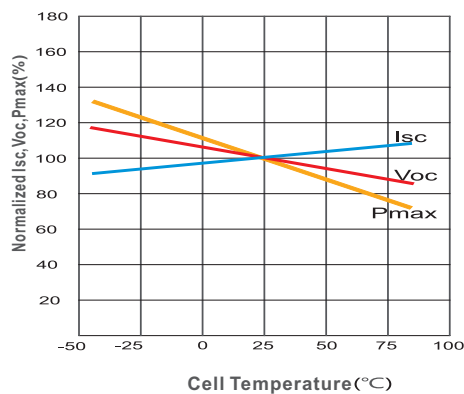


Current-Voltage & Power-Voltage Curve(300W)



Excellent performance under weak light conditions: at an irradiance intensity of 200 W/m² (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m²) is achieved

Temperature Dependence of Isc, Voc, Pmax



Electrical Characteristics

STC	GY290P-72	GY300P-72	GY310P-72
Maximum Power at STC (Pmax)	290 W	300 W	310 W
Optimum Operating Voltage (Vmp)	35.8 V	36.1 V	36.7 V
Optimum Operating Current (Imp)	8.10 A	8.31 A	8.45 A
Open Circuit Voltage (Voc)	44.5 V	44.7 V	45.46 V
Short Circuit Current (Isc)	8.69 A	8.88 A	9.28 A
Cell Efficiency	17.0%	17.4%	17.8%
Operating Module Temperature	-40 °C ~ +85 °C		
Maximum System Voltage	1000 V DC (TUV)		
Maximum Series Fuse Rating	15 A		
Power Tolerance	+/-5 %		

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5

Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.45 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.05 %/°C

Mechanical Characteristics

Solar Cells	Polycrystalline silicon 156 × 156 mm
No. of Cells	72 (6 × 12)
Dimensions	1956 × 992 × 50mm
Weight	22.5 kg
Front Glass	3.2 mm tempered glass
Frame	Anodized/Electrophoretic aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm² symmetrical lengths (-) 900mm
Connectors	Cixi Renhe 05-6

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	24/18	26/19
Pallets per container	8/4	20/4
Pieces per container	268	596



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