

# GY300P-72

POLYCRYSTALLINE MODULE

280 W att  
290 W att  
300 W att



## Features

**12**  
Year 12 years warranty on material and workmanship

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

**0/+3%** Guaranteed positive tolerance of 0/+3% delivers higher outputs reliably

**2400Pa**  
**5400Pa** Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)

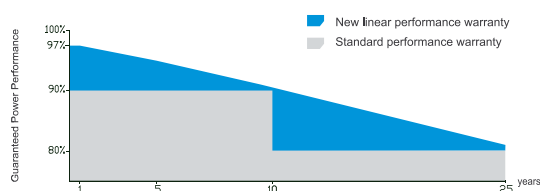
**LOW**  
TEMPERATURE Low nominal operating cell temperature (NOCT) delivers better power and performance over time

**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

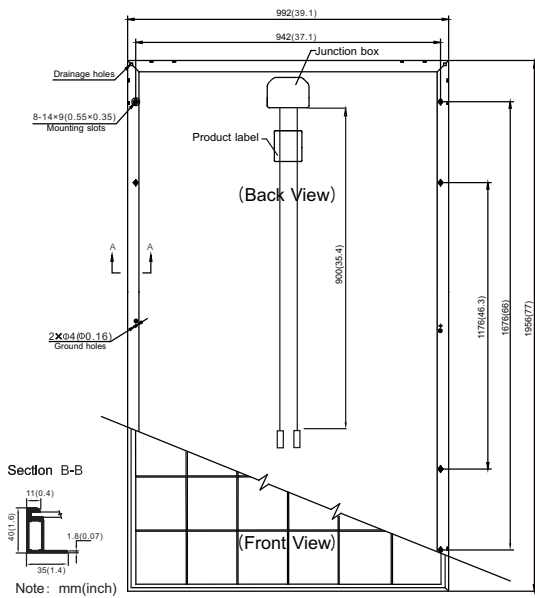
- Based on nominal power (P<sub>nom</sub>)
- 10 years guaranteed in 90% minimum power output
- 25 years guaranteed in 80% minimum power output



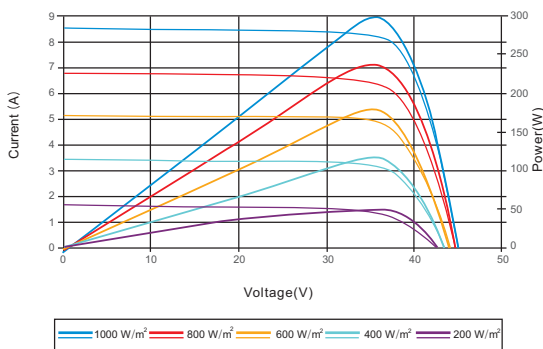
Certifications and standards:

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

## Engineering Drawings

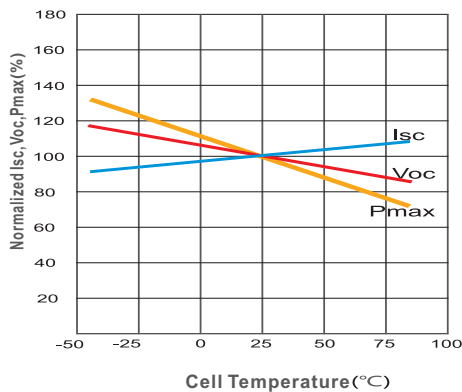


Current-Voltage & Power-Voltage Curve(300W)



Excellent performance under weak light conditions: at an irradiance intensity of 200 W/m<sup>2</sup> (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m<sup>2</sup>) is achieved

Temperature Dependence of Isc, Voc, Pmax



## Electrical Characteristics

STC	GY280P-72	GY290P-72	GY300P-72
Maximum Power at STC (Pmax)	280 W	290 W	300 W
Optimum Operating Voltage (Vmp)	35.3 V	35.8 V	36.1 V
Optimum Operating Current (Imp)	7.93 A	8.10 A	8.31 A
Open Circuit Voltage (Voc)	44.1 V	44.5 V	44.7 V
Short Circuit Current (Isc)	8.61 A	8.69 A	8.88 A
Cell Efficiency	16.4%	17.0%	17.6%
Operating Module Temperature	-40 °C ~ +85 °C		
Maximum System Voltage	1000 V DC (TUV)		
Maximum Series Fuse Rating	15 A		
Power Tolerance	0/+3 %		

STC: Irradiance 1000 W/m<sup>2</sup>, 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 × 40mm
Weight	22.5 kg
Front Glass	3.2 mm tempered glass
Frame	Anodized/Electrophoretic aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm <sup>2</sup> symmetrical lengths (-) 1170mm
Connectors	MC4 connectors

## 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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