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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Znshine PV-tech Co., Ltd.**

**ZXP6 72/310-345**

**ZXP6 72-325/P**

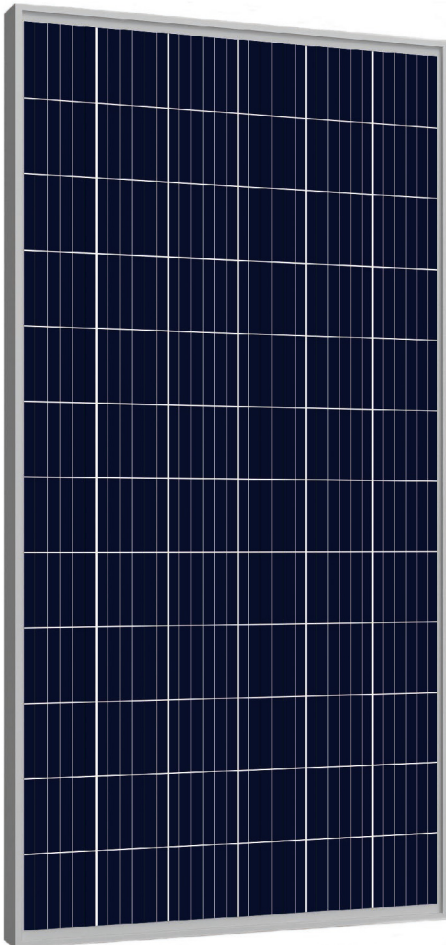
Also available on the web at  
[EnergyPal.com/znshine-pv-tech-co-ltd-solar-panels/zxp6-72-325-p](http://EnergyPal.com/znshine-pv-tech-co-ltd-solar-panels/zxp6-72-325-p)



# ZNSHINESOLAR

## ZXP6 | 72 Cells

### Polycrystalline PV module 310-345 Watt



Made with selected materials and components to grant quality, duration, efficiency and through outputs, the 72-cell polycrystalline modules by ZNSHINE SOLAR( power output 310 up to 345Wp) represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy whilst reducing your energy bill.

ZNSHINE SOLAR'S 72-cell polycrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.



High Efficiency

High module efficiency up to 17.78%



Linear Warranty

25-year-linear warranty on outputs



5400 Pa

Certified to withstand extreme static loads of 5400 Pa



PID free

Free from PID (Potential Induced Degradation)



Extensive green certificates

Extensive green certificates



System Certification

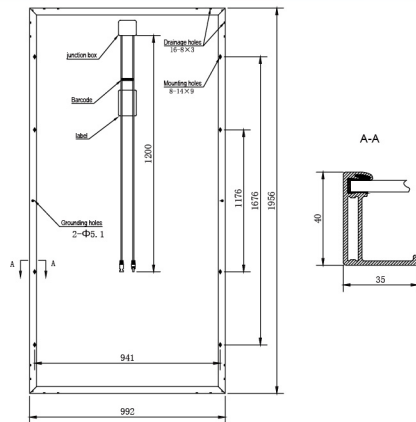
ISO 9001  
ISO 14001  
OHSAS 18001



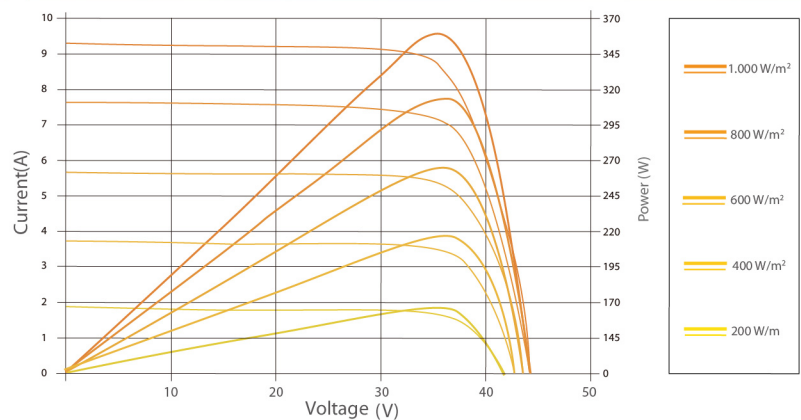
# ZXP6 72/310-345



## Dimension of the PV module



## I-V Curves of the PV module



## Electrical data

Model	ZXP6 72-310/P	ZXP6 72-315/P	ZXP6 72-320/P	ZXP6 72-325/P	ZXP6 72-330/P	ZXP6 72-335/P	ZXP6 72-340/P	ZXP6 72-345/P
Nominal Power Watt $P_{max}(W_p)$	310	315	320	325	330	335	340	345
Power Output Tolerance $P_{max}(\%)$	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage $V_{mp}(V)$	36.98	37.28	37.22	37.34	37.45	37.64	37.74	37.83
Maximum Power Current $I_{mp}(A)$	8.39	8.45	8.61	8.72	8.83	8.91	9.01	9.12
Open Circuit Voltage $V_{oc}(V)$	45.98	45.60	46.22	46.34	46.46	46.58	46.70	46.82
Short Circuit Current $I_{sc}(A)$	9.02	8.96	9.18	9.26	9.34	9.42	9.50	9.58
Module Efficiency $\eta_m(\%)$	15.98	16.23	16.49	16.75	17.01	17.26	17.52	17.78

## Mechanical data

Solar cells	Poly 156×156 / 156.75×156.75 mm
Cells orientation	72 (6×12)
Module dimension	1956 × 992 × 40 mm
Weight	22.5 kg
Glass	High transparency, low iron, tempered glass 3.2mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm <sup>2</sup> , 1200 mm
Connectors	MC4-compatible

## Temperature ratings

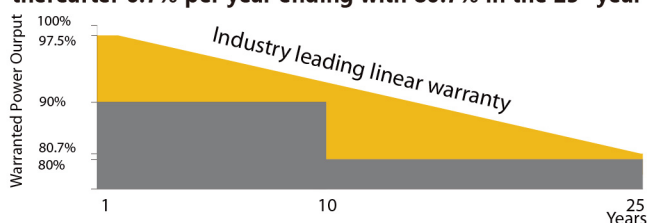
Nominal Operating Cell Temperature	45°C ± 2°C
Temperature coefficient of $P_{max}$	-0.41%/K
Temperature coefficient of $V_{oc}$	-0.33%/K
Temperature coefficient of $I_{sc}$	0.06%/K

## Working conditions

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C ~ +85°C
Maximum series fuse	15 A
Maximum load (snow/wind)	5400 Pa / 2400 Pa

## Warranty information

10 years workmanship warranty  
25 years output warranty (polycrystalline): 2.5% in the 1<sup>st</sup> year, thereafter 0.7% per year ending with 80.7% in the 25<sup>th</sup> year



## Packaging information

Modules per box	27 pcs. (40 mm)
Modules per 40' HQ container	648 pcs. (40mm)

Measurement Tolerance STC: ±3% ( $P_{max}$ ), ±10% ( $V_{mp}$ ,  $I_{mp}$ ,  $V_{oc}$ ,  $I_{sc}$ ). Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C) | Remark: please read safety and installation instructions before using the product | Subject to change without prior notice © ZNSHINE SOLAR 2018 | Version: ZXP6-72-1805.E