



# ZXP6 | 60 Cells

## Polycrystalline PV module 255-290 Watt



Made with selected materials and components to grant quality, duration, efficiency and through outputs, the 60-cell polycrystalline modules by ZNSHINE SOLAR( power output 255 up to 290Wp, black modules up to 290Wp) 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.

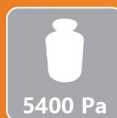
ZNSHINE SOLAR'S 60-cell polycrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.



High module efficiency up to 17.72%



25-year-linear warranty on outputs



Certified to withstand extreme static loads of 5400 Pa



Free from PID (Potential Induced Degradation)



Extensive green certificates



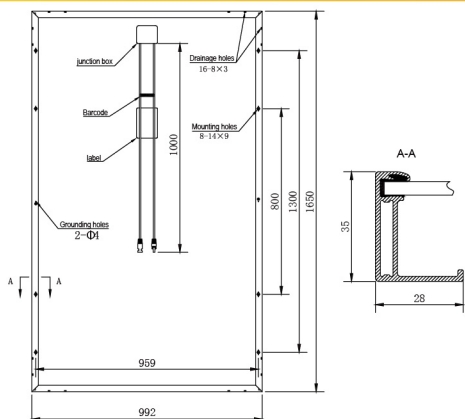
ISO 9001  
ISO 14001  
OHSAS 18001



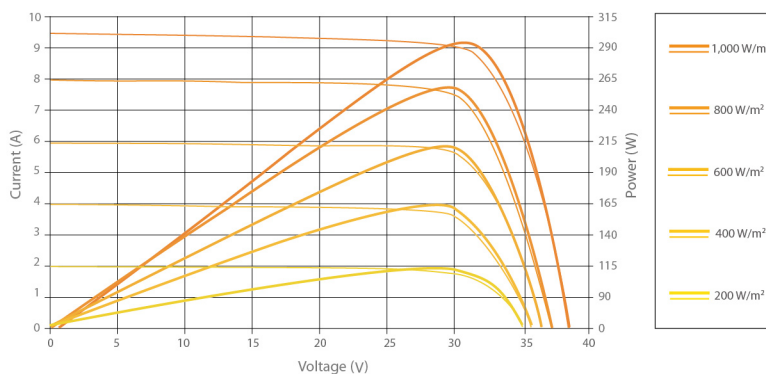
# ZXP6 60/255-290



## Dimension of the PV module



## I-V Curves of the PV module



## Electrical data

| Model  | ZXP6<br>60-255/P | ZXP6<br>60-260/P | ZXP6<br>60-265/P | ZXP6<br>60-270/P | ZXP6<br>60-275/P | ZXP6<br>60-280/P | ZXP6<br>60-285/P | ZXP6<br>60-290/P |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Nominal Power Watt <math>P_{max}(W_p)</math></b>    | 255              | 260              | 265              | 270              | 275              | 280              | 285              | 290              |
| <b>Power Output Tolerance <math>P_{max}(\%)</math></b> | 0~+3             | 0~+3             | 0~+3             | 0~+3             | 0~+3             | 0~+3             | 0~+3             | 0~+3             |
| <b>Maximum Power Voltage <math>V_{mp}(V)</math></b>    | 30.42            | 30.60            | 30.78            | 30.89            | 31.15            | 31.40            | 31.64            | 31.87            |
| <b>Maximum Power Current <math>I_{mp}(A)</math></b>    | 8.39             | 8.51             | 8.63             | 8.75             | 8.83             | 8.92             | 9.01             | 9.10             |
| <b>Open Circuit Voltage <math>V_{oc}(V)</math></b>     | 38.29            | 38.41            | 38.53            | 38.65            | 38.76            | 38.89            | 39.01            | 39.13            |
| <b>Short Circuit Current <math>I_{sc}(A)</math></b>    | 9.06             | 9.14             | 9.22             | 9.30             | 9.38             | 9.46             | 9.54             | 9.62             |
| <b>Module Efficiency <math>\eta_m(\%)</math></b>       | 15.58            | 15.88            | 16.19            | 16.50            | 16.80            | 17.11            | 17.41            | 17.72            |

## Mechanical data

|                          |   |
|--------------------------|---|
| <b>Solar cells</b>       | Poly 156×156 / 156.75×156.75 mm                                   |
| <b>Cells orientation</b> | 60 (6×10)   |
| <b>Module dimension</b>  | 1650×992×35 mm  |
| <b>Weight</b>            | 19.5 kg   |
| <b>Glass</b>             | High transparency, low iron, tempered<br>glass 3.2mm (AR-coating) |
| <b>Junction box</b>      | IP 68, 3 diodes   |
| <b>Cables</b>            | 4 mm <sup>2</sup> , 1000 mm                                       |
| <b>Connectors</b>        | MC4-compatible  |

## Temperature ratings

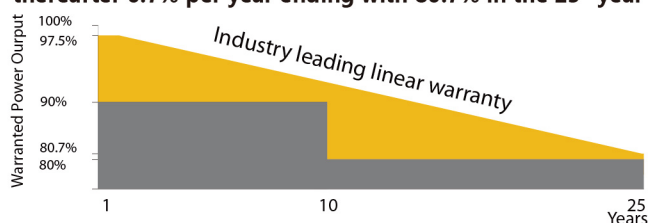
|  |           |
|--|-----------|
| <b>Nominal Operating Cell Temperature</b>              | 45°C ±2°C |
| <b>Temperature coefficient of <math>P_{max}</math></b> | -0.41%/K  |
| <b>Temperature coefficient of <math>V_{oc}</math></b>  | -0.33%/K  |
| <b>Temperature coefficient of <math>I_{sc}</math></b>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

## Working conditions

|                                 |                   |
|---------------------------------|-------------------|
| <b>Maximum system voltage</b>   | 1000 / 1500 V DC  |
| <b>Operating temperature</b>    | -40°C~+85°C       |
| <b>Maximum series fuse</b>      | 15 A              |
| <b>Maximum load (snow/wind)</b> | 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

|                                     |                |
|-------------------------------------|----------------|
| <b>Modules per box</b>              | 30 pcs.(35mm)  |
| <b>Modules per 40' HQ container</b> | 896 pcs.(35mm) |

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: ZXP6-60-1805.E