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Solar Panel Guide Specification Data Sheet

Znshine PV-tech Co., Ltd.

ZXP6 60-255-290/P

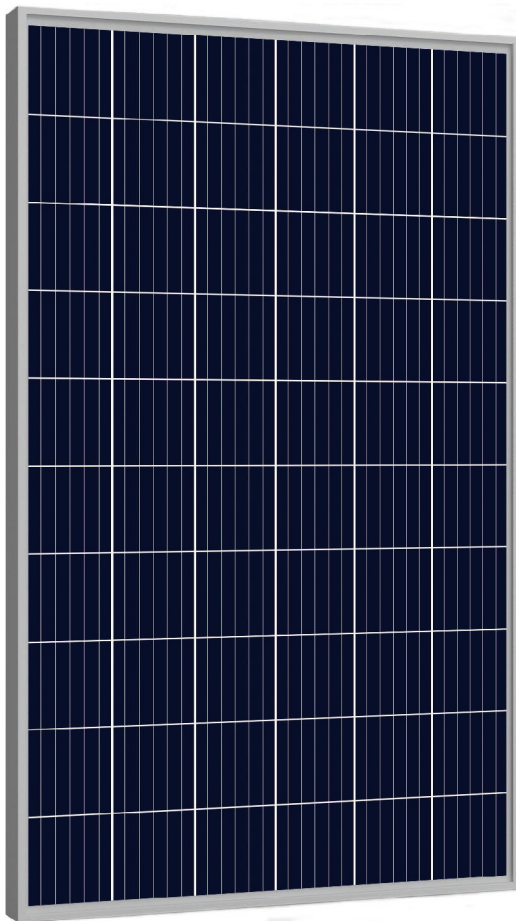
ZXP6 60-290/P

Also available on the web at
EnergyPal.com/znshine-pv-tech-co-ltd-solar-panels/zxp6-60-290-p



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.

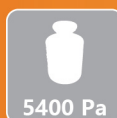
ZNSHINE SOLAR'S 60-cell polycrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments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



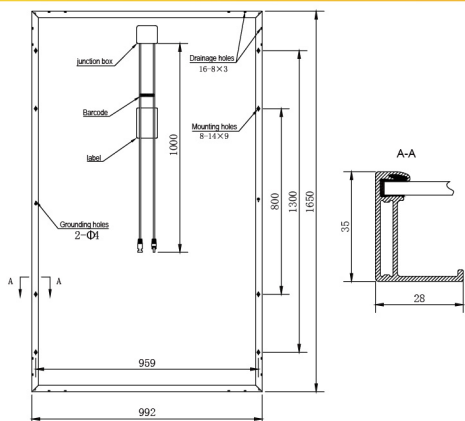
ISO 9001
ISO 14001
OHSAS 18001



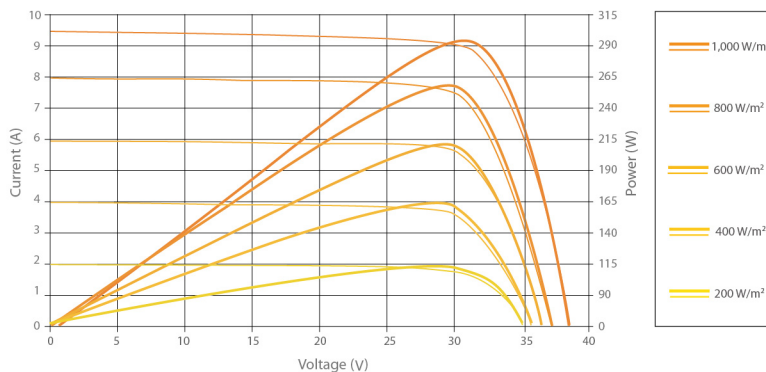
ZXP6 60/255-290



Dimension of the PV module



I-V Curves of the PV module



Electrical data

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

Mechanical data

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

Temperature ratings

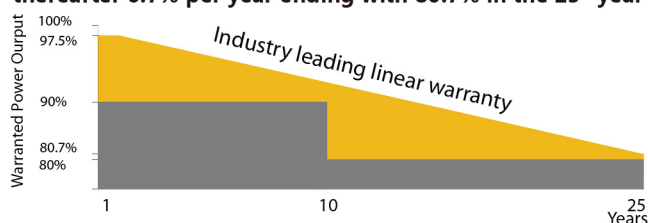
| | |
|--|-----------|
| Nominal Operating Cell Temperature | 45°C ±2°C |
| Temperature coefficient of P_{max} | -0.41%/K |
| Temperature coefficient of V_{oc} | -0.33%/K |
| Temperature coefficient of I_{sc} | 0.06%/K |

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 1st year, thereafter 0.7% per year ending with 80.7% in the 25th year



Packaging information

| | |
|-------------------------------------|----------------|
| Modules per box | 30 pcs.(35mm) |
| Modules per 40' HQ container | 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/m², 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