# **ZXM6** | 72 Cells



## 270 - 305 Watt

### Monocrystalline photovoltaic module (alu and black)

ZXM6-72 is one of ZNSHINE SOLAR's largest monocrystalline panels. Versatile and adaptable, with a power output ranging from 270 Wp up to 305 Wp (black modules up to 295 W), it is perfect for residential rooftop systems as well as for ground-mounted installations.



High module conversion efficiency up to 15,71 %



Insured output warranty of 25 years



Green Certifications: PV-Cycle, carbon footprint and RoHS



Free from Potentialinduced Degradation (PID-free)

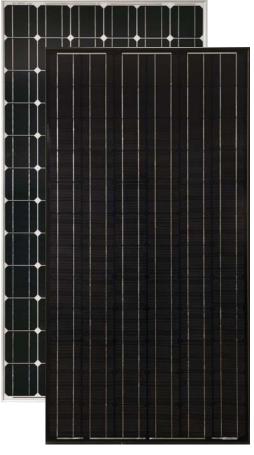


Resistant against ammonia and salt mist



Certified to withstand extreme snowloads of 5.400 Pascal

This module is made of reliable and carefully selected components. With a 25-year output warranty and a 10-year workmanship warranty, ZXM6-72 meets rigorous quality controls and international standard such as ISO 9001, ISO 14001 and OHSAS 18001. The panel is tested by widely acknowledged certifying institutions such as TÜV Süd. The recycling of this module at the product's end of life follws the prescriptions of PV-CYCLE Association certification.





## 25 years power output guarantee insured by PowerGuard

ZNSHINE SOLAR is one of the first manufacturers whose modules participate in the PowerGuard insurance programme, guaranteeing an output of 90% for 10 years and of 80% for 25 years even in the unlikely case of manufacturer's insolvency.



Ökologischer Fußabdruck: Die CO<sub>2</sub>-Bilanz dieses Solarmoduls entspricht **371 kg CO<sub>2</sub>-Equivalent It.** Berechnung vom Juli 2012.













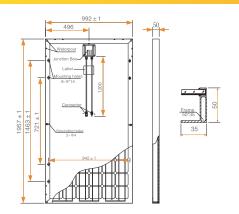


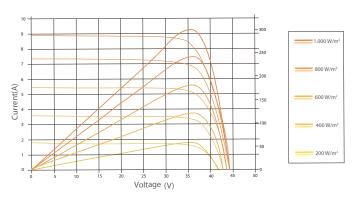




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### I-V Curves of the PV module





Electrical Data		ZXM6-96-275/M	ZXM6-96-280/M	ZXM6-96-285/M	ZXM6-96-290/M	ZXM6-96-295/M	ZXM6-96-300/M	ZXM6-96-305/M
Nominal Power Watt P <sub>max</sub> (W <sub>p</sub> )	270	275	280	285	290	295	300	305
Power Output Tolerance P <sub>max</sub> (%	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3
Maximum Power Voltage V <sub>max</sub> (V	36.00	36.20	36.50	36.60	36.80	37.00	37.20	37.50
Maximum Power Current I <sub>Mpp</sub> (A	) 7.50	7.60	7.67	7.78	7.88	7.97	8.06	8.13
Open Circuit Voltage V <sub>oc</sub> (V)	44.39	44.64	45.01	45.38	45.77	46.00	46.19	46.26
Short Circuit Current I <sub>sc</sub> (A)	8.33	8.44	8.52	8.56	8.59	8.62	8.66	8.73
Module Efficiency η <sub>m</sub> (%)	13.91	14.17	14.42	14.68	14.94	15.20	15.45	15.71
Cell Efficiency η <sub>c</sub> (%)	16.01	16.34	16.68	17.01	17.34	17.68	18.01	18.35

#### **Mechanical Data**

**Solar Cells** Mono 156 × 156 mm

**Cells Orientation**  $72 (6 \times 12)$ 

**Module Dimensions**  $1957 \times 992 \times 50 \text{ mm}$ 

Weight 22.5 kg

Glass High transparency, low Iron,

AR-coating, tempered glass 3.2 mm

Frame Anodized Aluminium alloy.

Frame and backside in black or alu

**Junction Box** 

Cables/Connector 4 mm<sup>2</sup>, 1200 mm, MC4-compatible

**Number of Diodes** 

10 years workmanship warranty

10 years warranty at 90% power output

+ further 15 years warranty at 80% power output

### **Temperature Ratings**

Nominal Operating Cell Temperature 45 °C (±2 °C)

Temperature Coefficient of Pmpn -0.42 %/K Temperature Coefficient of V -0.29 %/K Temperature Coefficient of I 0.04 %/K

#### Working Conditions

**Maximum System Voltage** from -40 to +85 °C **Operating Temperature** 15 A **Maximum Series Fuse** Maximum Load (Snow/Wind) 5400 Pa / 2400 Pa Ammonia-/Salt Mist Resistance IEC 62716, 61701 ✓

#### Packaging Information

Module pro Palette 23 pcs (50 mm) Module pro 40'-Container 506 pcs. (50 mm)

1 Measuremen Tolerance STC:  $\pm$  3% ( $P_{max}$ ),  $\pm$  10% ( $V_{max}$  /  $I_{Mopt}$   $V_{oc}$  I  $_{s_c}$ ), Values at Standard Test Conditions STC (Air Mass AM 1,5, Irradiance 1000 W/m², Cell Temperature 25 °C) Remark: Please read safety and installation instructions before using the product | Subject to change without prior notice © ZNSHINE SOLAR 2013 | Versionscode: ZXM6-72-1307.E

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1000 V DC (TÜV)