STINGRAY Panel



STINGRAY ZXM5-72/180-205 W

STINGRAY ZXM5-205 W is one of ZNSHINE's newest panels. Versatile and adaptable, with power output ranging from 180 Wp up to 205 Wp, it is perfect for both groundmounted and commercial rooftop systems.

During the manufacturing process of this panel rigorous quality control meets the highest international standards: ISO 9001, 14001 and 18001.

Being approved by international testing institutions like TÜV Süd, TÜV Rheinland and BABT this panel comes with a 25-year output guarantee of 85 % power production and a 10-year manufacturer warranty.

RoHS (Restriction of Hazardous Substances): Like all other panels from ZNSHINE SOLAR this fulfills all restrictions regarding the use of Lead,

Mercury, Cadmium, Hexavalent Chromium, PBB or PBDE. Therefore, you can be sure about one thing: We take our green mission very responsibly.

25 years power output guarantee insured by the PowerGuard insurance

As one of the first manufacturers worldwide all modules from ZNSHINE SOLAR are equipped with the new PowerGuard insurance. This means you can rely on an



insured output of 92 % for 10 years and 85 % for 25 years. More security cannot be achieved by any other insurance!



The benefits of this panel:

- » High efficiency up to 16.06 %
- » Highly automated and vertically *integrated manufacturing process*
- » Output guarantee of 25 years
- » Europe-wide references
- » Bankable in Europe



















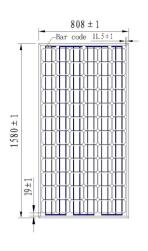


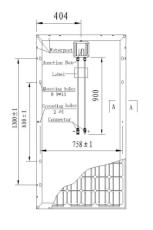


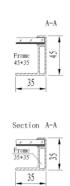
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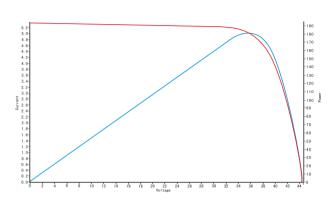
Dimensions of PV module ZXM5-72/180-205 W

I-V Curves of PV module ZXM5-72/180-205 W









Electrical Data	ZXIVI5-72-180/IVIS	ZXM5-72-185/MS	ZXIVI5-72-190/IVIS	ZXIVI5-72-195/IVIS	ZXIVI5-72-200/IVIS	ZXIVI5-72-205/IVIS
Peak Power Watts-P _{MAX} (WP)	180	185	190	195	200	205
Power Output Tolerance-P _{MAX} (%)	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3	0 ~ +3
Maximum Power Volatage V _{MAX} (V)	36.20	36.40	36.65	36.90	37.30	37.55
Maximum Power Current-I _{MPP} (A)	4.97	5.08	5.18	5.28	5.36	5.46
Open Circuit Voltage-Voc (V)	44.60	45.00	45.36	45.50	45.65	45.75
Short Circuit Current-Isc (A)	5.47	5.54	5.58	5.63	5.65	5.70
Module Efficiency ηm (%)	14.10	14.49	14.88	15.27	15.67	16.06

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000 W/m², Cell Temperature 25°C)

Mechanical Data

Solar cells Mono 125 x 125 mm, (φ165)

Cells orientation 72 (6 x 12)

Module dimension 1580 x 808 x 45 mm, 1580 x 808 x 35 mm

Weight 16 kg / 15.5 kg

Glass High transperancy, Low Iron, Tempered glass 3.2 mm

Frame Anodized aluminium alloy

Junction box IP 65

Cables/Connector Diameter 4 mm², Length 900 mm.

Number of Diodes 3

Warranty information

10 years workmanship warranty

10 years warranty, 92% power output

25 years warranty, 85% power output

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People's Republic of China Email: service@znshinesolar.com

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. Jan 2012 ZNShineSolar. All rights reserved.

Specifications included in this datasheet are subject to change without notice.

Temperature Ratings

Nominal Operating Cell Temperature (NOCT) $45^{\circ}\text{C} \ (\pm 2^{\circ}\text{C})$ Temperature Coefficient of P_{MPP} $-0.42\%^{\circ}\text{C}$ Temperature Coefficient of V_{SC} $-0.29\%^{\circ}\text{C}$ Temperature Coefficient of I_{SC} $0.04\%^{\circ}\text{C}$

Working Conditions

Maximum System Voltage DC1000V (TUV)
Operating Temperature (-40 ~ +85) °C
Maximum Series Fuses 10 A
Front & rear static load test(eg: wind) 2400 pa
Front load test (eg: snow) 5400 pa

Packaging information

Modules per box26 /30 pcsModules per pallet52 /60 pcsModules per 40" HQ container728/840 pcs