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Solar Panel Guide Specification Data Sheet

Znshine PV-tech Co., Ltd.

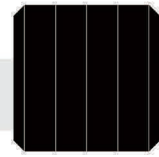
ZXM6-60

ZXM6-60-280/M

Also available on the web at
EnergyPal.com/znshine-pv-tech-co-ltd-solar-panels/zxm6-60-280-m

ZXM6-60 Series

Znshinesolar **5BB** Monocrystalline PV Module



60

Mono Poly Solutions

280W | 285W | 290W | 295W | 300W | 305W | 310W

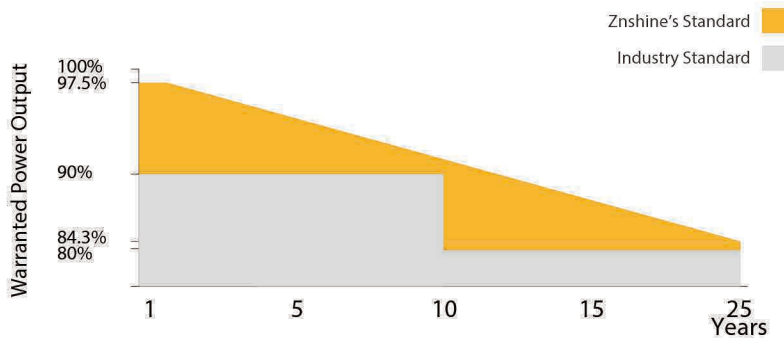
Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-60 monocrystalline modules by ZNSHINE SOLAR represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy whilst reducing your energy bill.

ZNSHINE SOLAR' S ZXM6-60 monocrystalline 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.

12 years product warranty for general application

15 years product warranty for Rooftop PV system

25 years output warranty/0.55% linear degradation p.a.



5 Busbar Solar Cell

No power loss thanks to improved temperature co-efficient caused by 5 busbar solar cell



Easy to install

The module is very light in weight so the installation is easier and transport costs are lower



Anti PID (Optional)

Limited power degradation of ZXM6-60 module caused by PID effect is guaranteed under strict testing condition for mass production



Linear Warranty

25-year linear warranty on outputs



ZNShine PV-Tech Co., LTD, founded in 1988, is a world-leading high-performance PV module manufacturer, PV power station developer, EPC and power station operator. With its state-of-the-art production lines, the company boasts module output of 3.2GW. Bloomberg has listed ZNShine as a global Tier 1 PV manufacturer and Top 10 reliable PV supplier.

www.znshinesolar.com

ELECTRICAL PROPERTIES | STC*

| Module Type | ZXM6-60-280/M | ZXM6-60-285/M | ZXM6-60-290/M | ZXM6-60-295/M | ZXM6-60-300/M | ZXM6-60-305/M | ZXM6-60-310/M |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Nominal Power Watt Pmax(W) | 280 | 285 | 290 | 295 | 300 | 305 | 310 |
| Power Output Tolerance Pmax(%) | ±3 | ±3 | ±3 | ±3 | ±3 | ±3 | ±3 |
| Maximum Power Voltage Vmp(V) | 31.6 | 31.8 | 32.0 | 32.2 | 32.4 | 32.7 | 32.9 |
| Maximum Power Current Imp(A) | 8.87 | 8.97 | 9.07 | 9.17 | 9.26 | 9.33 | 9.43 |
| Open Circuit Voltage Voc(V) | 38.9 | 39.1 | 39.3 | 39.5 | 39.7 | 39.9 | 40.1 |
| Short Circuit Current Isc(A) | 9.37 | 9.47 | 9.56 | 9.67 | 9.75 | 9.85 | 9.95 |
| Module Efficiency (%) | 17.11 | 17.41 | 17.72 | 18.02 | 18.33 | 18.63 | 18.94 |

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5
 *The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NOCT*

| | | | | | | | |
|-------------------------------|-------|-------|-------|------|-------|-------|-------|
| Maximum Power Pmax(Wp) | 207.4 | 211.3 | 214.5 | 219 | 222.3 | 225.8 | 229.3 |
| Maximum Power Voltage Vmpp(V) | 29.3 | 29.7 | 29.7 | 29.8 | 30.2 | 30.4 | 30.6 |
| Maximum Power Current Impp(A) | 7.08 | 7.12 | 7.23 | 7.34 | 7.36 | 7.42 | 7.49 |
| Open Circuit Voltage Voc(V) | 36.0 | 36.2 | 36.4 | 36.6 | 36.7 | 36.9 | 37.1 |
| Short Circuit Current Isc(A) | 7.57 | 7.57 | 7.72 | 7.81 | 7.81 | 7.88 | 7.96 |

*NOCT(Nominal Operating Cell Temperature):Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s
 *The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

| | |
|---------------------------------|-----------|
| NOTC | 45°C ±2°C |
| Temperature coefficient of Pmax | -0.37%/°C |
| Temperature coefficient of Voc | -0.29%/°C |
| Temperature coefficient of Isc | 0.05%/°C |

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

MECHANICAL DATA

| | |
|-------------------|---|
| Solar cells | 5BB Mono 156.75×156.75 mm |
| Cells orientation | 60 (6×10) |
| Module dimension | 1650×992×40 mm |
| Weight | 19 kg |
| Glass | High transparency, low iron, tempered 3.2mm Coated glass |
| Junction box | IP 68, 3 diodes |
| Cables | H1Z2Z2-K 1×4,0mm ² |
| Connectors | LJQ-1 |
| | manufactured in China |

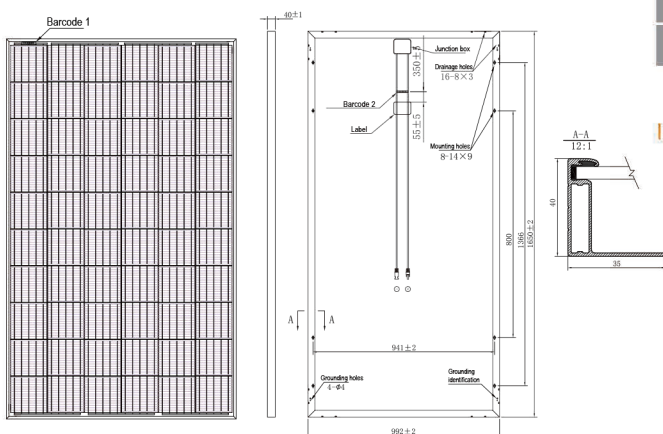
WORKING CONDITIONS

| | |
|-------------------------|--|
| Maximum system voltage | 1500 V DC |
| Operating temperature | -40°C~+85°C |
| Maximum series fuse | 15 A |
| Maximum load front/back | 3600/1600 for 8 M8 screws 2400/2400 only for 4 clamps with 40mm frame with safety factor 1.5 |

PACKAGING INFORMATION

| | |
|-----------------|--------|
| Packing Type | 40' HQ |
| Piece/Box | 27 |
| Piece/Container | 756 |

DIMENSION OF THE PV MODULE (mm)



I-V CURVES OF THE PV MODULE

