



ZXMR-UHLD132 Series

SMBB HALF-CELL N-Type Monofacial Double Glass Monocrystalline PV Module



*As there are different certification requirements in different markets.please contact your local znshine sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

KEY FEATURES

10

*Please check the valid version of Limited Product Warranty which is officially released by ZNSHINE PV-TECH Co.,Ltd.

5

15

25



Guaranteed Power

100%

90% 87 40

80%

Excellent Cells Efficiency

SMBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



TIER 1

Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.

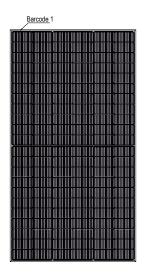


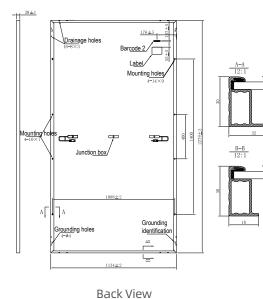
Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.



DIMENSIONS OF PV MODULE(mm)





Front View

*Remark: customized frame color and cable length available upon request

ELECTRICAL CHARACTERISTICS | STC*

| Nominal Power Watt Pmax(W)* | 565 | 570 | 575 | 580 | 585 | 590 |
|------------------------------|-------|-------|-------|-------|-------|-------|
| Maximum Power Voltage Vmp(V) | 38.70 | 38.90 | 39.10 | 39.30 | 39.50 | 39.70 |
| Maximum Power Current Imp(A) | 14.60 | 14.66 | 14.71 | 14.76 | 14.82 | 14.87 |
| Open Circuit Voltage Voc(V) | 46.60 | 46.80 | 47.00 | 47.20 | 47.40 | 47.60 |
| Short Circuit Current Isc(A) | 15.49 | 15.54 | 15.59 | 15.64 | 15.69 | 15.74 |
| Module Efficiency (%) | 21.86 | 22.06 | 22.25 | 22.44 | 22.64 | 22.83 |

Cells orientation 132 (6×22) Module dimension 2279×1134×30mm (With Frame) Weight 31.5±1.0 kg Glass 2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass Junction box IP 68, 3 diodes

MECHANICAL DATA

Solar cells

Cables

Connectors*

*The data above is for reference only and the actual data is in accordance with the pratical testing *STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5

*Measuring uncertainity: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

| ELECTRICAL CHARACTERISTICS NMOT | | | | | | |
|--|--------|--------|--------|--------|--------|--------|
| Maximum Power Pmax(Wp) | 430.50 | 434.30 | 437.80 | 441.50 | 445.00 | 449.00 |
| Maximum Power Voltage Vmp(V) | 36.30 | 36.50 | 36.70 | 36.90 | 37.10 | 37.20 |
| Maximum Power Current Imp(A) | 11.86 | 11.90 | 11.94 | 11.98 | 12.01 | 12.06 |
| Open Circuit Voltage Voc(V) | 44.20 | 44.40 | 44.60 | 44.70 | 44.90 | 45.10 |
| Short Circuit Current Isc(A) | 12.50 | 12.54 | 12.58 | 12.62 | 12.66 | 12.70 |
| *NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s | | | | | | |

| TEMPERATURE RATINGS | ed connector | | |
|---------------------------------|-------------------|-----------------------------------|---------------|
| NMOT | 44℃ ±2℃ | Maximum system voltage | 1500 V DC |
| Temperature coefficient of Pmax | (-0.28±0.028)%/°C | Operating temperature | -40°C~+85℃ |
| Temperature coefficient of Voc | -0.23%/°C | Maximum series fuse | 25 A |
| Temperature coefficient of Isc | 0.045%/℃ | Front Side Maximum Static Loading | Up to 5400 Pa |
| | | Rear Side Maximum Static Loading | Up to 2400 Pa |

4 mm² ,350mm (With Connectors)

MC4-EVO2 compatible

N-type Monocrystalline, Rectangular cells

*Remark: Do not connect Fuse in Combiner Box with two or more strings in parallel connection *Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.

They only serve for comparison among different module types.

*Caution:Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

| PACKAGING CONFIGURATION |
|-------------------------|
|-------------------------|

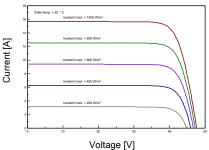
| Piece/Box | 36 |
|------------------------|-----|
| Piece/Container(40'HQ) | 720 |
| | |

*Customized packaging is available upon request

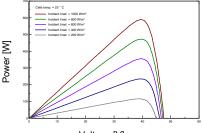
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Note: Specifications included in this datasheet are subject to change without notice.ZNSHINE reserves the right of final interpretation © ZNSHINE SOLAR 2024 | Version: ZXMR-UHLD132 2409.E No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document

I-V CURVES OF PV MODULE(590W)



P-V CURVES OF PV MODULE(590W)



Voltage [V]