



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.

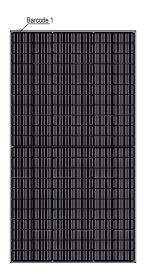


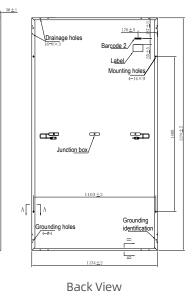
Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.



DIMENSIONS OF PV MODULE(mm)

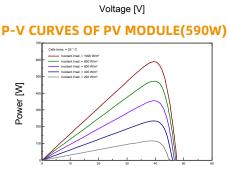




Current [A]

MECHANICAL DATA

Connectors*



Voltage [V]

ELECTRICAL CHARACTERISTICS | STC*

Front View

585 590 565 570 575 580 Nominal Power Watt Pmax(W)* 38.70 38.90 39.10 39.30 39.50 39.70 Maximum Power Voltage Vmp(V) 14.60 14.66 14.71 14.76 14.82 14.87 Maximum Power Current Imp(A) 46.60 46.80 47.00 47.20 47.40 47.60 Open Circuit Voltage Voc(V) Short Circuit Current Isc(A) 15.49 15.54 15.59 15.64 15.69 15.74 21.87 22.84 22.07 22.26 22.45 22.65 Module Efficiency (%)

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

Solar cells N-type Monocrystalline, Rectangular cells 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 Cables 4 mm² ,350mm (With Connectors)

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5

*The data above is for reference only and the actual data is in accordance with the pratical testing

*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						

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

*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.

MC4-EVO2 compatible

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	

*Customized packaging is available upon request

🖗 Add :No. 229 Tongda Avenue Suqian Economic and Technological Development Zone 223800 Suqian City, Jiangsu P.R. China 🛛 🖕 Tel: +86 519 6822 0233 🖂 E-mail: info@znshinesolar.com

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)