



ZXMR-UHLD132 Series

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

565-590W

22.83%

0.40%

POWER RANGE

MAXIMUM EFFICIENCY

YEARLY DEGRADATION







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



IEC 61215/IEC 61730

ISO 14001: Environmental Managerment System

ISO 9001: Quality Managerment System

ISO45001: Occupational Health and Safety Managerment System

*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-



Excellent Cells Efficiency

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

25

years



Better Weak Illumination Response

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



Anti PID

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



Adapt To Harsh Outdoor Environment

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



TIER 1

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

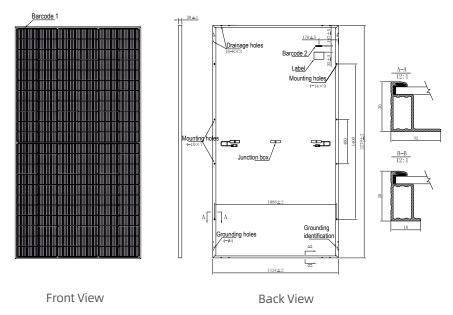


Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.

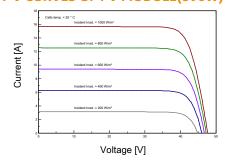


DIMENSIONS OF PV MODULE(mm)

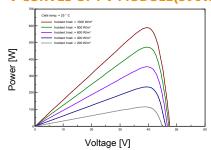


^{*}Remark: customized frame color and cable length available upon request

I-V CURVES OF PV MODULE(590W)



P-V CURVES OF PV MODULE(590W)



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

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

MECHANICAL DATA

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 mm ² ,350mm (With Connectors)				

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
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^{*}NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

PACKAGING CONFIGURATION*

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

*Customized packaging is available upon request

*Please refer to regional datasheet for specified connector TEMPEDATURE DATINGS

Connectors*

TEMPERATURE RATINGS	WORKING CONDITIONS			
NMOT	44°C ±2°C	Maximum system voltage	1500 V DC	
Temperature coefficient of Pmax	(-0.28±0.028)%/°C	Operating temperature	-40°C~+85°C	
Temperature coefficient of Voc	-0.23%/℃	Maximum series fuse	25 A	
Temperature coefficient of Isc	0.045%/℃	Front Side Maximum Static Loading	Up to 5400 Pa	
*Pemark-Do not connect Eusa in Combiner Roy with h	wo or more strings in para	Rear Side Maximum Static Loading	Up to 2400 Pa	

WORKING CONDITIONS

MC4-EVO2 compatible

🖗 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

^{*}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.

^{*}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.