



ZXMR-UHLD132 Series

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

565-585W

22.6%

0.40%

POWER RANGE

MAXIMUM EFFICIENCY

YEARLY DEGRADATION







Please check the Limited Warranty for Standard PV Modules which is







IEC 61215/IEC 61730/IEC 61701/IEC 62716

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



Ultra Low Carbon

CO₂ emissions only 10% of the AL frame.



High Insulation

PU composite frame: no grounding, reduce PID risk, improve safety, maintenance free.



High Anti PID

PU composite frame, Super Anti-PID performance.



High Anti-Glare

PU composite frame, Super Anti-Glare performance.



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintainance cost



Better Weak Illumination Response

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



Corrosion Resistant

Excellent humidity and heat resistance, anti-salt spray corrosion, suitable for offshore PV stations and other highly corrosive fields.



TIER 1

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

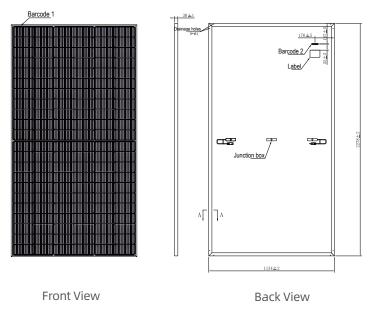


Natural Black Vision

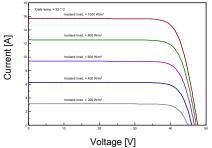
Solar modules with a PU composite frame have a more uniform appearance and superior aesthetics.



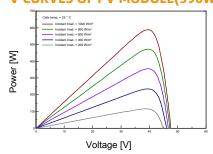
DIMENSIONS OF PV MODULE(mm)



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
Maximum Power Voltage Vmp(V)	40.90	41.10	41.30	41.50	41.70
Maximum Power Current Imp(A)	13.82	13.87	13.93	13.98	14.03
Open Circuit Voltage Voc(V)	48.60	48.80	49.00	49.20	49.40
Short Circuit Current Isc(A)	14.70	14.75	14.81	14.86	14.92
Module Efficiency (%)	21.9	22.1	22.3	22.5	22.6

^{*}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	2278×1134×30mm (With Frame)
Weight	32.0±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)

Connectors* MC4-EVO2 compatible

*Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT

Maximum Power Pmax(Wp)	429.90	433.40	437.30	440.90	444.60	
Maximum Power Voltage Vmp(V)	38.20	38.40	38.50	38.70	38.90	
Maximum Power Current Imp(A)	11.26	11.30	11.34	11.38	12.04	
Open Circuit Voltage Voc(V)	46.00	46.20	46.40	46.60	46.80	
Short Circuit Current Isc(A)	11.86	11.90	11.95	11.99	12.04	
*NMOT: Irradiance 900W/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

TEMPERATURE RATINGS WORKING CONDITIONS

TEMPERATURE RATINGS	WORKING CONDITIONS		
NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	(-0.28±0.028)%/℃	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
de la		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: customized frame color and cable length available upon request

^{*}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.