

·	Gran .	•
· · · · · · · · · · · · · · · · · · ·	U. TOHA	
· · · · · · · · · · · · · · · · · · ·	e	
	9	
·	Criptone costing	
k+ →+		•
↓ ↓ ↓		
	<u> </u>	
		*D
		*T
		· ·
		• • • • • • • • • • • • • • • • • • •
		· ·
		· · ·
		, ₽ ₽
		· · ·

ZXMR-UPLD132 Series

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







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.



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)





I-V CURVES OF PV MODULE(620W)



P-V CURVES OF PV MODULE(620W)



ELECTRICAL CHARACTERISTICS | STC*

MECHANICAL DATA

Nominal Power Watt Pmax(W)*	590	595	600	605	610	615	620	Solar cells	N-type Monocrystalline, Rectangular cells
Maximum Power Voltage Vmp(V)	39.70	39.90	40.10	40.30	40.50	40.70	40.90	Cells orientation	132 (6×22)
Maximum Power Current Imp(A)	14.87	14.92	14.97	15.02	15.07	15.12	15.17	Module dimension	2382×1134×30mm (With Frame)
Open Circuit Voltage Voc(V)	47.60	47.80	48.00	48.20	48.40	48.60	48.80	Weight	33±1.0 kg
Short Circuit Current Isc(A)	15.74	15.79	15.84	15.89	15.94	15.99	16.04	Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Module Efficiency (%)	21.84	22.03	22.21	22.40	22.58	22.77	22.95	Junction box	IP 68, 3 diodes
*The data above is for reference only and the actual data is in accordance with the pratical testing *STC (Standard Test Condition): Irradiance 1000W/m ² , Module Temperature 25±2°C, AM 1.5							Cables	4 mm² 1200mm (With Connectors)	

Connectors*

MC4-EVO2 compatible

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

ELECTRICAL CHARACTERISTICS NMOT								*Please refer to regional datasheet for specified connector TEMPERATURE RATINGS		VORKING CONDITIONS	
Maximum Power Pmax(Wp)	449.00	452.70	456.40	460.10	463.80	467.60	471.30	NMOT	44℃ ±2℃	Maximum system voltage	1500 V DC
Maximum Power Voltage Vmp(V)	37.20	37.40	37.60	37.80	38.00	38.20	38.30	Temperature coefficient of Pmax	(-0.28±0.028)%/℃	Operating temperature	-40°C~+85°C
Maximum Power Current Imp(A)	12.06	12.10	12.14	12.18	12.21	12.25	12.29	Temperature coefficient of Voc	-0.23%/°C	Maximum series fuse	25 A
Open Circuit Voltage Voc(V)	45.10	45.30	45.50	45.70	45.90	46.00	46.20	Temperature coefficient of Isc	0.045%/°C	Front Side Maximum Static Loading	Up to 5400 Pa
Short Circuit Current Isc(A)	12.70	12.74	12.78	12.82	12.86	12.90	12.94	*Remark:Do not connect Fuse in Combiner Box with t	wo or more strings in para	Rear Side Maximum Static Loading allel connection	Up to 2400 Pa
*NMOT:Irradiance 800W/m ² ,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s						*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.					
PACKAGING CONFIGURATION *						*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.					
Piece/Box		36									
Piece/Container(40'HQ)		720)								

*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-UPLD132 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