



ZXMR-UOLD144 Series

16BB HALF-CELL N-Type TOPCon Double Glass Monocrystalline PV Module



10 15 25 30 Years

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

officially released by ZNSHINE PV-TECH Co.,Ltd.

*Please check the valid version of Limited Product Warranty which is



Guaranteed Power

100%

90%

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.



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.



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(605W)





Front View

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

ELECTRICAL CHARACTERISTICS | STC*

MECHANICAL DATA

Nominal Power Watt Pmax(W)*	570	575	580	585	590	595	600	605	Solar cells	N-type Monocrystalline
Maximum Power Voltage Vmp(V)	41.70	41.90	42.10	42.30	42.50	42.70	42.90	43.10	Cells orientation	144 (6×24)
Maximum Power Current Imp(A)	13.67	13.73	13.78	13.83	13.89	13.94	13.99	14.04	Module dimension	2278×1134×30mm (With Frame)
Open Circuit Voltage Voc(V)	50.30	50.50	50.70	50.90	51.10	51.30	51.50	51.70	Weight	31.5±1.0 kg
Short Circuit Current Isc(A)	14.39	14.45	14.50	14.55	14.61	14.66	14.71	14.76	Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Module Efficiency (%)	22.1	22.3	22.5	22.6	22.8	23.0	23.2	23.4	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/m², Module Temperature 25±2℃, AM 1.5							g	Cables	4 mm ² ,350mm (With Connectors)	

Connectors*

MC4-EVO2 compatible

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

	cs NMOT			*Please refer to regional datasheet for specifi TEMPERATURE RATINGS	ORKING CONDITIONS				
Maximum Power Pmax(Wp)	433.30 437.20 440.80 444	.40 448.40 452.00	455.70 459.30	NMOT	44℃ ±2℃	Maximum system voltage	1500 V DC		
Maximum Power Voltage Vmp(V)	39.30 39.50 39.70 39.	90 40.10 40.30	40.50 40.60	Temperature coefficient of Pmax	(-0.28±0.028)%/℃	Operating temperature	-40°C~+85°C		
Maximum Power Current Imp(A)	11.02 11.06 11.10 11.	14 11.19 11.23	11.26 11.30	Temperature coefficient of Voc	-0.23%/°C	Maximum series fuse	25 A		
Open Circuit Voltage Voc(V)	47.70 47.90 48.10 48.	20 48.40 48.60	48.80 49.00	Temperature coefficient of lsc	0.045%/°C	Front Side Maximum Static Loading	Up to 5400 Pa		
Short Circuit Current Isc(A)	11.61 11.66 11.70 11.	74 11.79 11.83	11.87 11.91	*Remark:Do not connect Fuse in Combiner Box with 1	two or more strings in para	Rear Side Maximum Static Loading allel connection	Up to 2400 Pa		
*NMOT:Irradiance 800W/m²,Ambient Tempe	rature 20°C,AM 1.5,Wind Speed 1	lm/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 CONFIGURATIO	* NC			*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.

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