



ZXM7-UHLD144 Series

Znshinesolar 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

officially released by ZNSHINE PV-TECH Co.,Ltd

5



Bower Bower

100%

1

Excellent Cells Efficiency

10

*Please check Limited Warranty for Standard PV Modules which is

15

25

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.

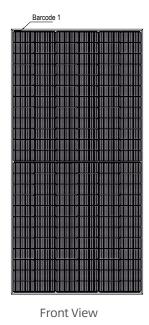


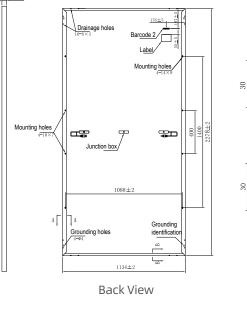
Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.

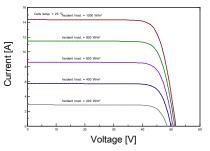


DIMENSIONS OF PV MODULE(mm)

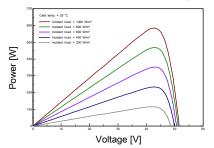




I-V CURVES OF PV MODULE(595W)



P-V CURVES OF PV MODULE(595W)



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

ELECTRICAL CHARACTERISTICS | STC*

MECHANICAL DATA

Nominal Power Watt Pmax(W)*	565	570	575	580	585	590	595	Solar cells	N-type Monocrystalline
Maximum Power Voltage Vmp(V)	42.20	42.40	42.60	42.80	43.00	43.20	43.40	Cells orientation	144 (6×24)
Maximum Power Current Imp(A)	13.39	13.45	13.50	13.56	13.61	13.66	13.72	Module dimension	2278×1134×30 mm (With Frame)
Open Circuit Voltage Voc(V)	50.80	51.00	51.20	51.40	51.60	51.80	52.00	Weight	31.5±1.0 kg
Short Circuit Current Isc(A)	14.12	14.18	14.24	14.30	14.36	14.42	14.48	Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Module Efficiency (%)	21.87	22.07	22.26	22.45	22.65	22.84	23.03	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					M 1.5	-	Cables	4 mm² ,350 mm (With Connectors)	

Connectors*

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

ELECTRICAL CHARACTERISTI	CS N	мот						*Please refer to regiona TEMPERATURE
Maximum Power Pmax(Wp)	427.80	431.70	435.30	439.20	442.90	446.60	450.50	NMOT
Maximum Power Voltage Vmp(V)	39.60	39.80	39.90	40.10	40.30	40.40	40.60	Temperature coe
Maximum Power Current Imp(A)	10.81	10.86	10.90	10.95	11.00	11.04	11.09	Temperature coe
Open Circuit Voltage Voc(V)	48.00	48.20	48.30	48.50	48.70	48.90	49.10	Temperature coe
Short Circuit Current Isc(A)	11.39	11.44	11.49	11.54	11.59	11.64	11.69	*Remark:Do not connect F
*NMOT:Irradiance 800W/m ² ,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s								*Remark:Electrical data in They only serve for compa *Caution:Please be kindly.

Please refer to regional datasheet for specifie		WORKING CONDITIONS					
ммот	44℃ ±2℃	Maximum system voltage	1500 V DC				
Temperature coefficient of Pmax	(-0.30±0.03)%/°C	Operating temperature	-40°C~+85°C				
Temperature coefficient of Voc	-0.25%/°C	Maximum series fuse	25 A				
Temperature coefficient of Isc	0.046%/°C	Front Side Maximum Static Loading	Up to 5400 Pa				

Rear Side Maximum Static Loading Up to 2400 Pa

t Fuse in Combiner Box with two or more strings in parallel connection n this catalog do not refer to a single module and they are not part of the offer.

MC4-compatible

parison among different module types.

Ily 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.

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