



ZXM7-UHLD120 Series

16BB HALF-CELL N-Type TOPCon 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-

5



Guaranteed Power

100% 99%

90%

80%

Excellent Cells Efficiency

10

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

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.



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.

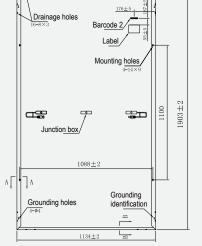
Founded in 1988, ZNShine solar is a world's leading high-tech PV module manufacturer. With the advanced production lines, the company boasts module capacity of 10 GW. Bloomberg has listed ZNShine as a global Tier 1 PV module maker. Today Znshine has distributed its sales to more than 60 countries around the globe.



DIMENSIONS OF PV MODULE(mm)

 30 ± 1





Back View

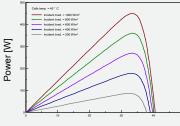
A-A 12:1

Current [A]

I-V CURVES OF PV MODULE(480W)

Voltage [V]

P-V CURVES OF PV MODULE(480W)



Voltage [V]

ELECTRICAL CHARACTERISTICS | STC*

Front View

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

MECHANICAL DATA

Nominal Power Watt Pmax(W)*	460	465	470	475	480	485	Solar cells	N-type Monocrystalline
Maximum Power Voltage Vmp(V)	34.70	34.90	35.10	35.30	35.50	35.70	Cells orientation	120 (6×20)
Maximum Power Current Imp(A)	13.26	13.33	13.40	13.46	13.53	13.59	Module dimension	1903×1134×30 mm (With Frame)
Open Circuit Voltage Voc(V)	41.90	42.10	42.30	42.50	42.70	42.90	Weight	26.5 ±1.0 kg
Short Circuit Current Isc(A)	14.01	14.07	14.13	14.19	14.25	14.31	Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Module Efficiency (%)	21.32	21.55	21.78	22.01	22.24	22.47	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					testing		Cables	4 mm ² ,350mm (With Connectors)

Connectors*

NMOT

Tempe

Tempe

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

ELECTRICAL CHARACTERISTICS | NMOT

Maximum Power Pmax(Wp)	347.70	351.10	355.00	358.60	362.60	366.10	
Maximum Power Voltage Vmp(V)	32.70	32.90	33.10	33.30	33.50	33.70	
Maximum Power Current Imp(A)	10.65	10.68	10.73	10.78	10.83	10.88	
Open Circuit Voltage Voc(V)	39.50	39.70	39.90	40.10	40.30	40.50	
Short Circuit Current Isc(A)	11.31	11.35	11.40	11.45	11.50	11.55	
*NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s							

	44℃ ±2℃	Maximum system voltage
erature coefficient of Pmax	(-0.30±0.03)%/℃	Operating temperature
erature coefficient of Voc	-0.25%/°C	Maximum series fuse

0.046%/%

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

WORKING CONDITIONS

Front Side Maximum Static Loading

1500 V DC

-40°C~+85°C

Up to 5400 Pa

25 A

*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.

MC4-compatible

*Please refer to regional datasheet for specified connector

TEMPERATURE RATINGS

Temperature coefficient of Isc

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.

PACKAGING CONFIGURATION*

PACKAGING CONTROLATION					
Piece/Box	36				
Piece/Container(40'HQ)	864				

*Customized packaging is available upon request

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