



ZXM7-SHLDD132 Series

10BB HALF-CELL Bifacial Double Glass Monocrystalline PERC PV Module



Znshine DG Modules Linear Guarantee Znshine Standard Common Standard 90% 84,95% 1 5 10 15 25 30 Years

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

*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

MBB 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.



Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.



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.

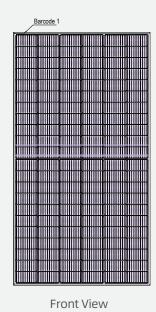


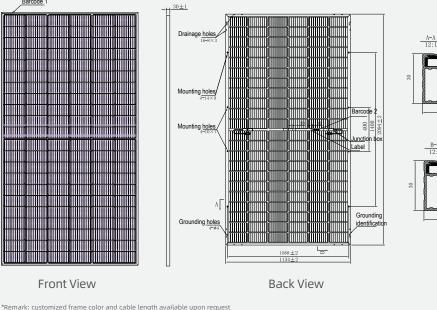
Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.

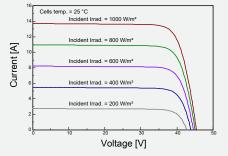


DIMENSIONS OF PV MODULE(mm)

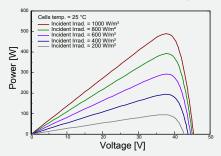




I-V CURVES OF PV MODULE(490W)



P-V CURVES OF PV MODULE(490W)



ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	485	490	495	500	505	510
Maximum Power Voltage Vmp(V)	37.60	37.80	38.00	38.20	38.40	38.60
Maximum Power Current Imp(A)	12.90	12.97	13.03	13.09	13.16	13.22
Open Circuit Voltage Voc(V)	45.20	45.40	45.60	45.80	46.00	46.20
Short Circuit Current Isc(A)	13.66	13.72	13.78	13.84	13.90	13.96
Module Efficiency (%)	20.42	20.64	20.85	21.06	21.27	21.48

*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°C, AM 1.5

*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)	362.50	366.40	370.00	373.60	377.40	381.10
Maximum Power Voltage Vmp(V)	34.90	35.10	35.30	35.50	35.70	35.90
Maximum Power Current Imp(A)	10.37	10.43	10.48	10.52	10.57	10.61
Open Circuit Voltage Voc(V)	42.20	42.40	42.60	42.80	43.00	43.10
Short Circuit Current Isc(A)	11.03	11.08	11.13	11.18	11.22	11.27
*NMOT:Irradiance 800W/m ² ,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s						

ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN*

Front power Pmax/W	485	490	495	500	505	510
Total power Pmax/W	606	613	619	625	631	638
Vmp/V(Total)	37.70	37.90	38.10	38.30	38.50	38.70
Imp/A(Total)	16.08	16.16	16.24	16.32	16.40	16.47
Voc/V(Total)	45.30	45.50	45.70	45.90	46.10	46.30
Isc/A(Total)	16.84	16.91	16.99	17.07	17.32	17.40
*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition.						

MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	132 (6×22)
Module dimension	2094×1134×30 mm (With Frame)
Weight	29±1kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,350 mm (With Connectors)
Connectors*	MC4-compatible

*Please refer to regional datasheet for specified connector

TEMPERATURE RATINGS

TEMPERATURE RATINGS		WORKING CONDITIONS	
NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.35%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.29%/°C	Maximum series fuse	30 A
Temperature coefficient of Isc	0.05%/℃	Front Side Maximum Static Loading	Up to 5400Pa
Refer.Bifacial Factor *Remark:Do not connect Fuse in Combiner Box with	70±10% two or more strings	Rear Side Maximum Static Loading	Up to 2400Pa

PACKAGING CONFIGURATION *

Piece/Box	36
Piece/Container(40'HQ)	792

*Customized packaging is available upon request. *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

It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

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