

ZXM8-GPLDD132 Series

18BB HALF-CELL N-Type TOPCon Bifacial Double Glass Monocrystalline PV Module

675-700W

22.53%

0.40%

POWER RANGE

MAXIMUM EFFICIENCY

YEARLY DEGRADATION













IEC 61215/IEC 61730/IEC 61701/IEC 62716

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management 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

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.

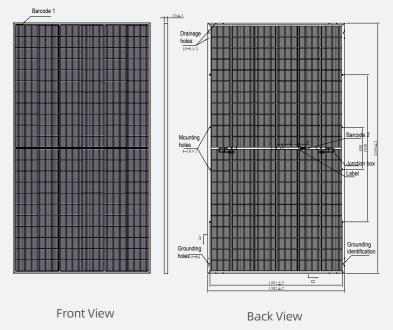


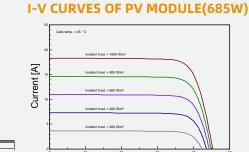
Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.

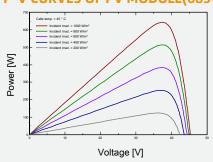


DIMENSIONS OF PV MODULE(mm)





Voltage [V] P-V CURVES OF PV MODULE(685W)



WORKING CONDITIONS

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

ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	675	680	685	690	695	700
Maximum Power Voltage Vmp(V)	39.50	39.70	39.90	40.10	40.30	40.50
Maximum Power Current Imp(A)	17.09	17.13	17.17	17.21	17.25	17.29
Open Circuit Voltage Voc(V)	47.30	47.50	47.70	47.90	48.10	48.30
Short Circuit Current Isc(A)	18.07	18.11	18.15	18.19	18.23	18.27
Module Efficiency (%)	21.73	21.89	22.05	22.21	22.37	22.53

^{*}The data above is for reference only and the actual data is in accordance with the pratical testing

MECHANICAL DATA

Solar cells	N-type Monocrystalline
Cells orientation	132 (6×22)
Module dimension	2384×1303×35 mm (With Frame)
Weight	38.5±1.0 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,350 mm (With Connectors)
Connectors*	MC4-compatible

^{*}Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	511.00	514.70	518.40	522.10	525.80	529.50
Maximum Power Voltage Vmpp(V)	37.20	37.40	37.60	37.80	38.00	38.20
Maximum Power Current Impp(A)	13.73	13.76	13.79	13.82	13.84	13.87
Open Circuit Voltage Voc(V)	44.70	44.90	45.10	45.30	45.50	45.70
Short Circuit Current Isc(A)	14.58	14.61	14.64	14.67	14.70	14.74

^{*}NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

TEMPERATURE RATINGS

ИМОТ	43°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	(-0.30±0.03)%/℃	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.25%/℃	Maximum series fuse	35 A
Temperature coefficient of Isc	0.046%/°C	Front Side Maximum Static Loading	Up to 5400Pa
Refer.Bifacial Factor	(80±10)%	Rear Side Maximum Static Loading	Up to 2400Pa

Remark:Do not connect Fuse in Combiner Box with two or more strings in parallel connection

ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN*

Front power Pmax/W	675	680	685	690	695	700	
Total power Pmax/W	844	850	856	863	869	875	
Vmp/V(Total)	39.60	39.80	40.00	40.20	40.40	40.60	
Imp/A(Total)	21.31	21.36	21.41	21.46	21.50	21.55	
Voc/V(Total)	47.40	47.60	47.80	48.00	48.20	48.40	
Isc/A(Total)	22.53	22.58	22.63	22.68	22.73	22.77	

Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

PACKAGING CONFIGURATION*

Piece/Box	31
Piece/Container(40'HQ)	558

^{*}Customized packaging is available upon request

^{*}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.

^{*}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.

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