

*Please check Limited Warranty for Standard PV Modules which is officially released by ZNSHINE PV-TECH Co.,Ltd

ZXM8-GPLDD132 Series

SMBB HALF-CELL N-Type Bifacial Double Glass Monocrystalline PU Composite Framed PV Module

695-730W **23.50%** **0.40%**
POWER RANGE **MAXIMUM EFFICIENCY** **YEARLY DEGRADATION**

12 **12 YEARS PRODUCT WARRANTY** **30** **30 YEARS OUTPUT GUARANTEE**



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



Ultra Low Carbon

CO₂ emissions only 10% of the AL frame.



High Insulation

PU composite frame: no grounding, reduce PID risk, improve safety, maintenance free.



High Anti PID

PU composite frame, Super Anti-PID performance.



High Anti-Glare

PU composite frame, Super Anti-Glare performance.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



Corrosion Resistant

Excellent humidity and heat resistance, anti-salt spray corrosion, suitable for offshore PV stations and other highly corrosive fields.



TIER 1

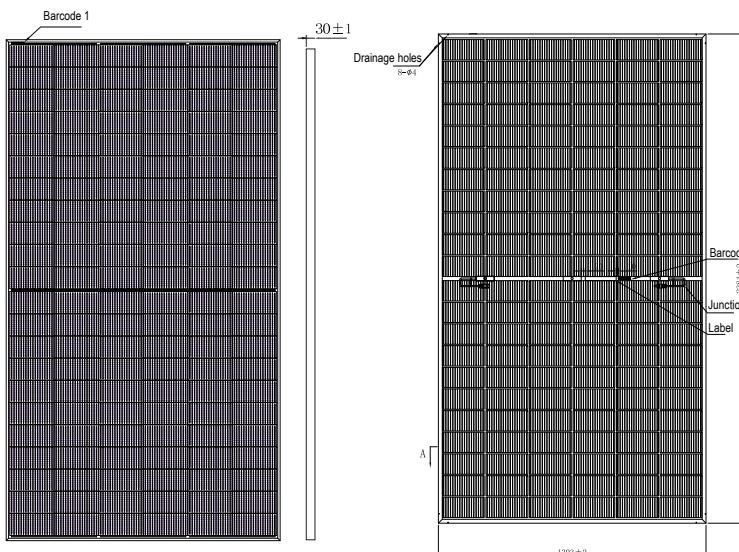
Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



Natural Black Vision

Solar modules with a PU composite frame have a more uniform appearance and superior aesthetics.

DIMENSIONS OF PV MODULE(mm)

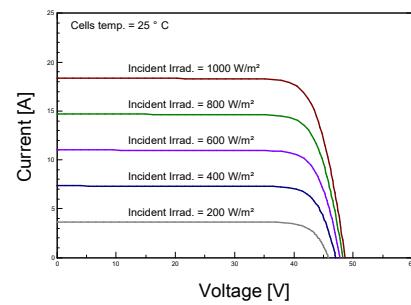


Front View

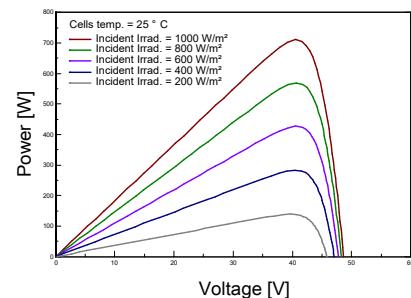
Back View

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

I-V CURVES OF PV MODULE(710W)



P-V CURVES OF PV MODULE(710W)



ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	695	700	705	710	715	720	725	730
Maximum Power Voltage Vmp(V)	40.30	40.50	40.70	40.90	41.10	41.30	41.50	41.70
Maximum Power Current Imp(A)	17.25	17.29	17.33	17.37	17.40	17.44	17.47	17.51
Open Circuit Voltage Voc(V)	48.10	48.30	48.50	48.70	48.90	49.10	49.30	49.50
Short Circuit Current Isc(A)	18.23	18.27	18.31	18.35	18.39	18.43	18.47	18.51
Module Efficiency (%)	22.37	22.53	22.70	22.86	23.02	23.18	23.34	23.50

*The data above is for reference only and the actual data is in accordance with the practical testing

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5

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

MECHANICAL DATA

Solar cells	N-type Monocrystalline						
Cells orientation	132 (6x22)						
Module dimension	2384x1303x30 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-EVO2 compatible						

*Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	527.80	531.50	533.50	537.30	542.60	546.40	550.00	553.80
Maximum Power Voltage Vmpp(V)	37.80	38.00	38.00	38.20	38.50	38.70	38.80	39.00
Maximum Power Current Imp(A)	13.97	14.00	14.04	14.07	14.10	14.13	14.16	14.19
Open Circuit Voltage Voc(V)	45.50	45.70	45.80	45.90	46.30	46.40	46.60	46.80
Short Circuit Current Isc(A)	14.70	14.74	14.78	14.81	14.83	14.87	14.90	14.93

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

TEMPERATURE RATINGS

NMOT	43°C ±2°C	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	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 (REAR POWER GAIN)*

5%	Maximum Power:Pmax(W)	730	735	740	746	751	756	761	767
	Module Efficiency(%)	23.49	23.66	23.83	24.00	24.17	24.34	24.51	24.68
15%	Maximum Power:Pmax(W)	799	805	811	817	822	828	834	840
	Module Efficiency(%)	25.73	25.91	26.10	26.28	26.47	26.66	26.84	27.03
25%	Maximum Power:Pmax(W)	869	875	881	888	894	900	906	913
	Module Efficiency(%)	27.97	28.17	28.37	28.57	28.77	28.97	29.17	29.38

*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.

*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.

PACKAGING CONFIGURATION *

Piece/Box	36
Piece/Container(40'HQ)	648