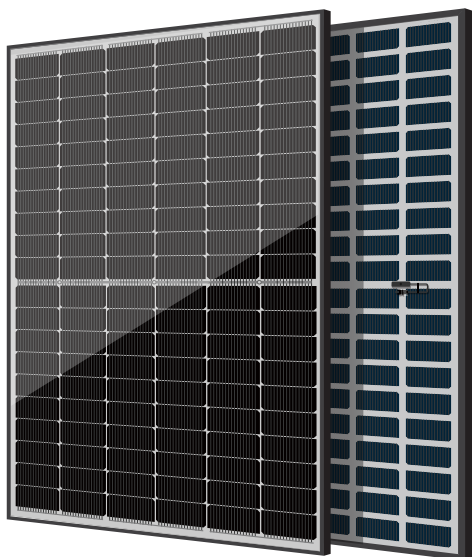


ZXI8-BD120 Series

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



630-670W

POWER RANGE

23.67%

MAXIMUM EFFICIENCY

0.40%

YEARLY DEGRADATION



12 YEARS PRODUCT WARRANTY



30 YEARS OUTPUT GUARANTEE



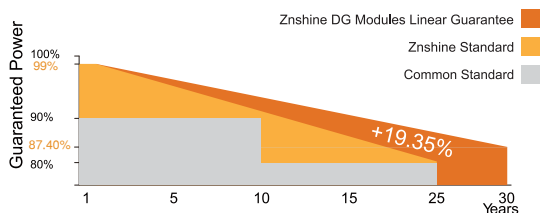
IEC 61215/IEC 61730/IEC 61701/IEC 62716

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.



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

KEY FEATURES



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



Better Weak Illumination Response

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



TIER 1

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



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia,



Bifacial Technology

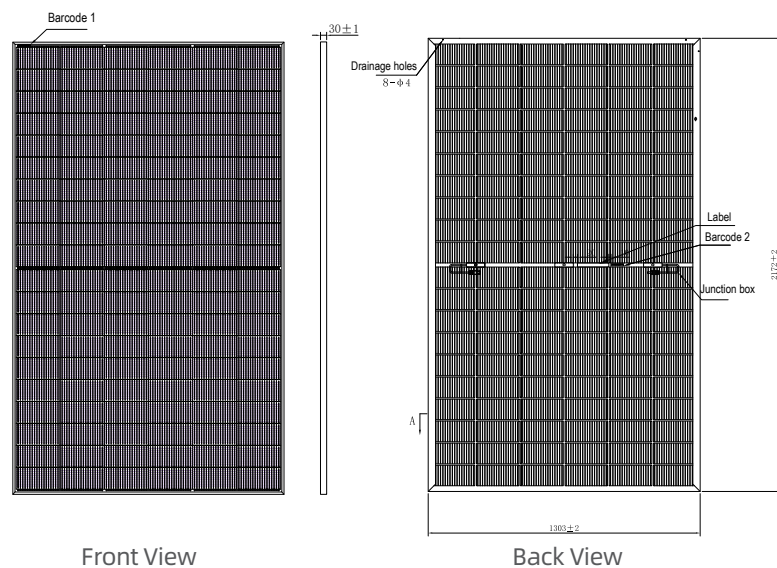
Up to 25% additional power gain from back side depending on albedo.



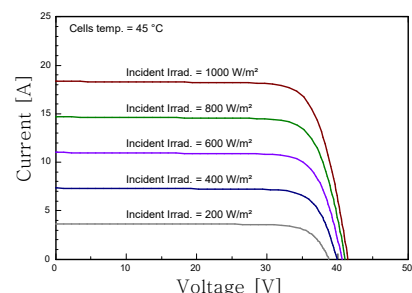
Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.

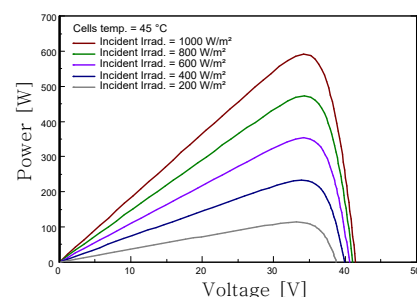
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(630W)



P-V CURVES OF PV MODULE(630W)



*Remark: customized frame color and cable length available upon request
only the classic 18BB assembly diagram is displayed here, other busbar can be customized according to requirements

ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	630	635	640	645	650	655	660	665	670
Maximum Power Voltage Vmp(V)	36.60	36.80	37.00	37.20	37.40	37.60	37.80	38.00	38.20
Maximum Power Current Imp(A)	17.22	17.26	17.30	17.34	17.38	17.43	17.47	17.50	17.54
Open Circuit Voltage Voc(V)	43.70	43.90	44.10	44.30	44.50	44.70	44.90	45.10	45.30
Short Circuit Current Isc(A)	18.24	18.29	18.34	18.39	18.44	18.49	18.54	18.59	18.64
Module Efficiency (%)	22.26	22.44	22.61	22.79	22.97	23.14	23.32	23.50	23.67

*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%, Power tolerance: ±3%
*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.
*All the electrical characteristics such as Im, Vm, Isc, Voc and FF are within ±5% tolerance.

MECHANICAL DATA

Solar cells	N-type Monocrystalline
Cells orientation	120 (6×20)
Module dimension	2172×1303×30 mm (With Frame)
Weight	33.5±1 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm², +300mm,-200mm or Customized Length(with connectors)
Connectors	MC4 compatible or MC4-EVO2
Fire safety class	Class A+A

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	477.00	480.60	486.10	490.10	493.90	497.90	501.70	504.00	509.10
Maximum Power Voltage Vmpp(V)	34.40	34.60	34.60	34.80	34.90	35.10	35.30	35.40	35.60
Maximum Power Current Imp(A)	13.85	13.89	14.06	14.10	14.14	14.18	14.22	14.22	14.29
Open Circuit Voltage Voc(V)	41.30	41.50	41.70	41.90	42.10	42.30	42.50	42.60	42.80
Short Circuit Current Isc(A)	14.71	14.75	14.79	14.83	14.87	14.91	14.95	15.00	15.04

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

ELECTRICAL CHARACTERISTICS (REAR POWER GAIN)

5%	Maximum Power:Pmax(W)	662	667	672	677	683	688	693	698	704
	Module Efficiency(%)	23.37	23.56	23.74	23.93	24.12	24.30	24.49	24.67	24.85
15%	Maximum Power:Pmax(W)	725	730	736	742	748	753	759	765	771
	Module Efficiency(%)	25.60	25.80	26.01	26.21	26.41	26.62	26.82	27.02	27.23
25%	Maximum Power:Pmax(W)	788	794	800	806	813	819	825	831	838
	Module Efficiency(%)	27.83	28.05	28.27	28.49	28.71	28.94	29.15	29.37	29.59

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

PACKAGING CONFIGURATION

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