ZXM8-SPLDD150 Series ZNSHINESOLAR



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

490W | 495W | 500W | 505W | 510W | 515W



Excellent Cell Efficiency

MBB technology decreases the distance between busbar and finger grid line which is benefit to power increase.



Better Weak Illumination Response

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



Anti PID

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



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



TIER 1

Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing.



Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.



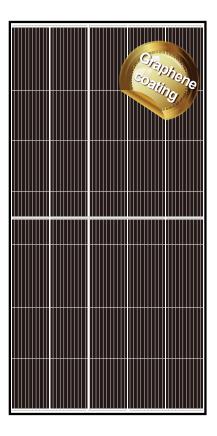
Bifacial Technology

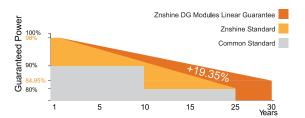
Up to 25% additional power gain from back side depending on albedo.



Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintainance cost







12 years product guarantee 30 years output guarantee



0.45% annual degradation after the first year











IEC61215/IEC61730/IEC61701/IEC62716/UL61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO45001: Occupational Health and Safety Management System



ELECTRICAL CHARACTERISTICS | STC* Nominal Power Watt Pmax(W)* 490 495 500 505 510 515 Power Output Tolerance Pmax(%) 0~+3 0~+3 0~+3 0~+3 0~+3 0~+3 Maximum Power Voltage Vmp(V) 43.50 43.70 43.90 42.90 43.10 43.30 Maximum Power Current Imp(A) 11.49 11.55 11.61 11.68 11.74 11.43 Open Circuit Voltage Voc(V) 51.20 51.40 51.60 51.80 52.00 52.20 12.03 12.09 12.15 12.21 12.27 12.33 Short Circuit Current Isc(A) 20.54 20.75 20.95 Module Efficiency (%) 20.33 21.16 21.37 *STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5 *Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS NMOT*						
Maximum Power Pmax(Wp)	366.90	370.50	374.20	378.00	381.90	385.50
Maximum Power Voltage Vmpp(V)	40.20	40.30	40.50	40.70	40.90	41.10
Maximum Power Current Impp(A)	9.14	9.19	9.24	9.29	9.34	9.39
Open Circuit Voltage Voc(V)	48.00	48.10	48.30	48.50	48.70	48.90
Short Circuit Current Isc(A)	9.71	9.76	9.81	9.86	9.90	9.95

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

ELECTRICAL CHARACT	ERISTIC:	S WITH 2!	5% REAR	SIDE POV	VER GAIN	
Front power Pmax/W	490	495	500	505	510	515
Total power Pmax/W	613	619	625	631	638	644
Vmp/V(Total)	43.00	43.20	43.40	43.60	43.80	44.00
Imp/A(Total)	14.24	14.32	14.40	14.48	14.55	14.63
Voc/V(Total)	51.30	51.50	51.70	51.90	52.10	52.30
Isc/A(Total)	14.99	15.07	15.15	15.23	15.29	15.37

MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	150 (5×30)
Module dimension	2187×1102×35 mm(With Frame)
Weight	30 kg
Glass	2.0 mm+2.0mm, High Transmission,AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,1200 mm
Connectors	MC4-compatible

TEMPERATURE RATING	GS	WORKING CONDITIONS		
NMOT	43°C ±2°C	Maximum system voltage	1500 V DC	
Temperature coefficient of Pmax	-0.35%/℃	Operating temperature	-40°C~+85°C	
Temperature coefficient of Voc	-0.29%/℃	Maximum series fuse	25 A	
Temperature coefficient of Isc	0.05%/℃	Maximum load(snow/wind)	5400 Pa / 2400 Pa	
Refer.Bifacial Factor	70±5%			

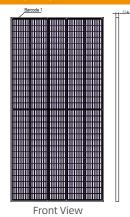
^{*}Do not connect Fuse in Combiner Box with two or more strings in parallel connection

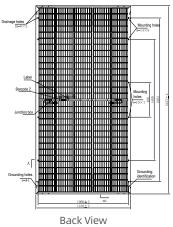
PACKAGING CONFIGURATION

Piece/Box	31	
Piece/Container _(40'HQ)	620	
Piece/Container(with additional small package)	/	

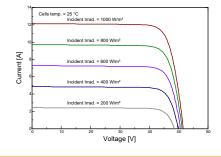
*Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

DIMENSIONS(MM)

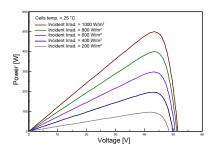




I-V CURVES OF PV MODULE(500W)



P-V CURVES OF PV MODULE(500W)



^{*}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