ZXM7-SHLDD144 Series

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



525W | 530W | 535W | 540W | 545W



Excellent cells efficiency

MBB technology decreases the distance between bus bars 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 morning



Anti PID

Limited power degradation caused by PID effect is guaranteed under strict testing condition for mass production



High wind and snow resistance

■ 5400 Pa snow load

2400 Pa wind load



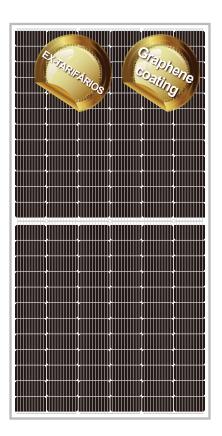
30 years power warranty

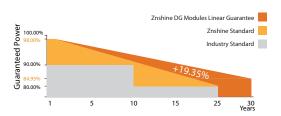
After 30 years our solar panel keeps at least 80% of its initial power output



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 over 30 years





























ELECTRICAL CHARACTERISTICS STC*						
Nominal Power Watt Pmax(W)*	525	530	535	540	545	
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	
Maximum Power Voltage Vmp(V)	40.90	41.10	41.30	41.50	41.70	
Maximum Power Current Imp(A)	12.85	12.91	12.96	13.02	13.07	
Open Circuit Voltage Voc(V)	49.20	49.40	49.60	49.80	50.00	
Short Circuit Current Isc(A)	13.59	13.65	13.71	13.77	13.83	
Module Efficiency (%) 20.4 20.6 20.7 20.9 21.1 *STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5 *Measuring tolerance: +3%						

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

ELECTRICAL CHARACTERISTICS NMOT*						
Maximum Power Pmax(Wp)	392.70	396.40	399.90	403.60	406.80	
Maximum Power Voltage Vmpp(V)	38.00	38.20	38.40	38.50	38.80	
Maximum Power Current Impp(A)	10.33	10.38	10.42	10.47	10.49	
Open Circuit Voltage Voc(V)	46.00	46.20	46.30	46.50	46.70	
Short Circuit Current Isc(A)	10.98	11.02	11.07	11.12	11.17	

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

ELECTRICAL CHARACT	ERISTICS WITI	H 25% R	EAR SIDE	POWER (GAIN	
Front power Pmax/W	525	530	535	540	545	
Total power Pmax/W	656	663	669	675	681	
Vmp/V(Total)	41.00	41.20	41.40	41.60	41.80	
Imp/A(Total)	16.01	16.08	16.15	16.23	16.30	
Voc/V(Total)	49.30	49.50	49.70	49.90	50.10	
Isc/A(Total)	16.95	17.02	17.10	17.17	17.25	

MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	144 (6×24)
Module dimension	2274×1134×35 mm(With Frame)
Weight	34 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,350 mm
Connectors	MC4-compatible
Weight Glass Junction box Cables	34 kg 2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass IP 68, 3 diodes 4 mm²,350 mm

TEMPERATURE RATINGS	WORKING CONDITIONS				
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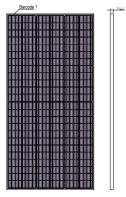
NMOT	44℃ ±2℃	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.35%/℃	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.29%/℃	Maximum series fuse	30 A
Temperature coefficient of Isc	0.05%/℃	Maximum load(snow/wind)	5400 Pa / 2400 Pa
Refer.Bifacial Factor	70±5%		

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

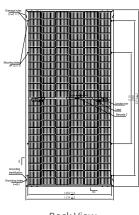
PACKAGING CONFIGURATION

Piece/Box	30
Piece/Container _(40'HQ)	600
Piece/Container(with additional small package)	/

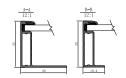
DIMENSIONS(MM)



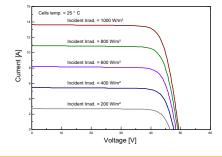
Front View



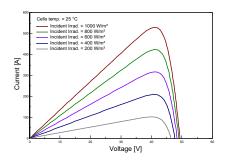
Back View



I-V CURVES OF PV MODULE(530W)



P-V CURVES OF PV MODULE(530W)



^{*}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.