ZXM6-NH144 Series

Znshinesolar 9BB HALF-CELL Monocrystalline PERC PV Module



430W | 435W | 440W | 445W | 450W | 455W



Excellent cells efficiency

9BB 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



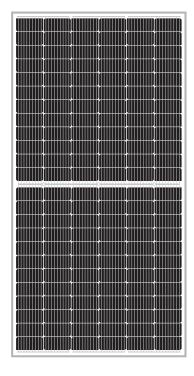
25 years power warranty

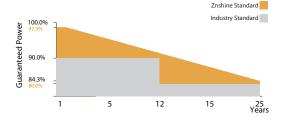
After 25 years our solar panel keeps at least 80% of its initial power output



Higher lifetime Power Yield

2.5% first year degradation, 0.55% linear degradation







12 years product warranty 25 years output warranty



0.55% Annual Degradation over 25 years































ELECTRICAL CHARACTERISTICS STC*						
430	435	440	445	450	455	
0~+3	0~+3	0~+3	0~+3	0~+3	0~+3	
40.60	40.80	41.00	41.20	41.40	41.60	
10.60	10.67	10.74	10.81	10.87	10.94	
49.50	49.70	49.90	50.10	50.30	50.50	
11.19	11.26	11.33	11.40	11.46	11.53	
19.78	20.01	20.24	20.47	20.70	20.93	
	430 0~+3 40.60 10.60 49.50	430 435 0~+3 0~+3 40.60 40.80 10.60 10.67 49.50 49.70 11.19 11.26	430 435 440 0~+3 0~+3 0~+3 40.60 40.80 41.00 10.60 10.67 10.74 49.50 49.70 49.90 11.19 11.26 11.33	430 435 440 445 0~+3 0~+3 0~+3 0~+3 40.60 40.80 41.00 41.20 10.60 10.67 10.74 10.81 49.50 49.70 49.90 50.10 11.19 11.26 11.33 11.40	430 435 440 445 450 0~+3 0~+3 0~+3 0~+3 0~+3 40.60 40.80 41.00 41.20 41.40 10.60 10.67 10.74 10.81 10.87 49.50 49.70 49.90 50.10 50.30 11.19 11.26 11.33 11.40 11.46	430 435 440 445 450 455 0~+3 0~+3 0~+3 0~+3 0~+3 40.60 40.80 41.00 41.20 41.40 41.60 10.60 10.67 10.74 10.81 10.87 10.94 49.50 49.70 49.90 50.10 50.30 50.50 11.19 11.26 11.33 11.40 11.46 11.53

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

^{*}Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS NMOT*							
Maximum Power Pmax(Wp)	321.50	325.20	328.90	332.70	336.10	339.80	
Maximum Power Voltage Vmpp(V)	37.90	38.10	38.20	38.40	38.60	38.80	
Maximum Power Current Impp(A)	8.49	8.54	8.60	8.66	8.70	8.76	
Open Circuit Voltage Voc(V)	46.20	46.40	46.60	46.70	46.9	47.1	
Short Circuit Current Isc(A)	9.04	9.09	9.15	9.21	9.25	9.31	

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

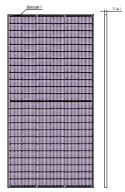
MECHANICAL DATA Mono PERC Solar cells 144 (6×24) Cells orientation 2094×1038×35 mm(With Frame) Module dimension Weight 24 kg Glass 3.2mm, High Transmission, AR Coated Tempered Glass Junction box IP 68, 3 diodes Cables 4 mm² ,350 mm Connectors MC4-compatible

TEMPERATURE RATING	is	WORKING CONDITIONS			
NMOT	44°C ±2°C	Maximum system voltage	1500 V DC		
Temperature coefficient of Pmax	-0.36%/℃	Operating temperature	-40°C~+85°C		
Temperature coefficient of Voc	-0.29%/℃	Maximum series fuse	20 A		
Temperature coefficient of Isc	0.05%/℃	Maximum load(snow/wind)	5400 Pa / 2400 Pa		

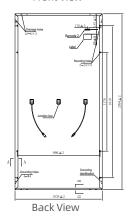
^{*}Do not connect Fuse in Combiner Box with two or more strings in parallel connection *Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types

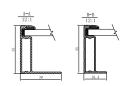
PACKAGING CONFIGURATION Piece/Box 30 Piece/Container(40'HQ) 660 Piece/Container(with additional small package)

DIMENSIONS(MM)

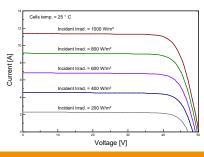


Front View





I-V CURVES OF PV MODULE(445W)



P-V CURVES OF PV MODULE(445W)

