ZXM7-SP144 Series

Znshinesolar 10BB HALF-CELL Monocrystalline PERC PV Module



520W | 525W | 530W | 535W | 540W



Excellent cells efficiency

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



cloudy, and morning

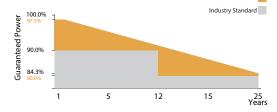


Limited power degradation caused by PID effect is guaranteed under strict testing condition for mass production



■ 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



12 years product warranty 25 years output warranty



0.55% Annual Degradation over 25 years















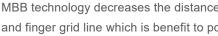














More power output in weak light condition, such as haze,



Anti PID







Higher lifetime Power Yield

2.5% first year degradation, 0.55% linear degradation





















ELECTRICAL CHARACTERISTICS STC*					
Nominal Power Watt Pmax(W)*	520	525	530	535	540
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.60	40.80	41.00	41.20	41.40
Maximum Power Current Imp(A)	12.82	12.88	12.94	13.00	13.05
Open Circuit Voltage Voc(V)	48.90	49.10	49.30	49.50	49.70
Short Circuit Current Isc(A)	13.54	13.60	13.66	13.72	13.78
Module Efficiency (%)	20.34	20.54	20.74	20.93	21.13

"STC (Standard	rest condition):	irradiance	10000/111-	, Module	remperature 25°C,	AIM I.5

^{*}Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS NMOT*						
Maximum Power Pmax(Wp)	388.90	392.60	396.30	400.00	403.50	
Maximum Power Voltage Vmpp(V)	37.80	38.00	38.20	38.30	38.50	
Maximum Power Current Impp(A)	10.29	10.34	10.39	10.43	10.48	
Open Circuit Voltage Voc(V)	45.70	45.90	46.10	46.20	46.40	
Short Circuit Current Isc(A)	10.93	10.98	11.03	11.08	11.13	

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

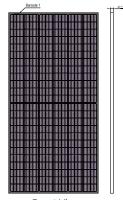
MECHANICAL DATA Mono PERC Solar cells 144 (6×24) Cells orientation 2256×1133×40 mm(With Frame) Module dimension 28.5 kg Weight Glass 3.2mm, High Transmission, AR Coated Tempered Glass Junction box IP 68, 3 diodes Cables 4 mm² ,350 mm Connectors MC4-compatible

TEMPERATURE RATINGS		WORKING CONDITIONS		
NMOT	44°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	

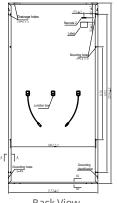
^{*}Do not connect Fuse in Combiner Box with two or more strings in parallel connection *Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types

PACKAGING CONFIGURATION Piece/Box 27 Piece/Container(40'HQ) 540 Piece/Container(with additional small package)

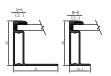
DIMENSIONS(MM)



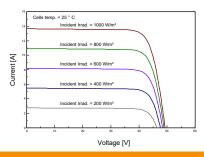
Front View



Back View



I-V CURVES OF PV MODULE(530W)



P-V CURVES OF PV MODULE(530W)

