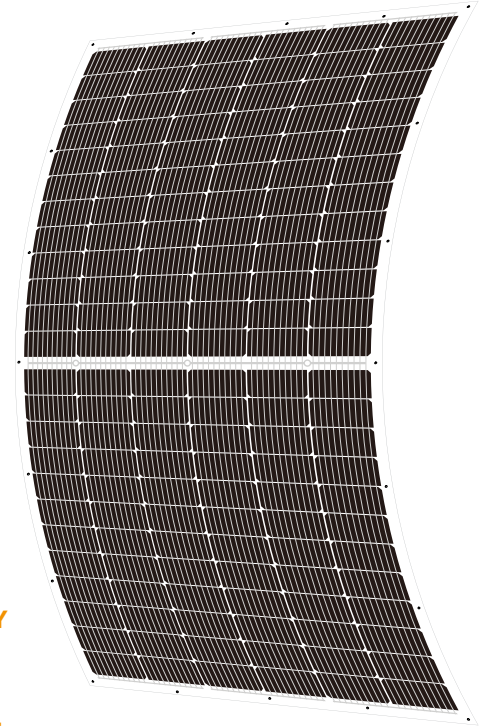
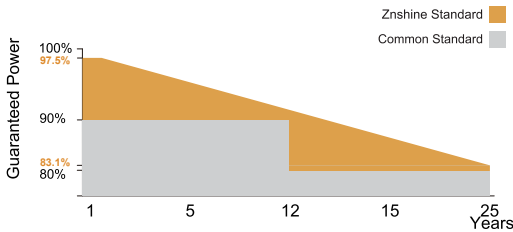


# ZXM7-SHBX144 Series

MBB HALF-CELL Monocrystalline PERC  
Lightweight-reinforced PV Module



**500-520W** **19.57%** **0.60%**  
**POWER RANGE** **MAXIMUM EFFICIENCY** **YEARLY DEGRADATION**



\*Please check the valid version of Limited Product Warranty which is officially released by ZNSHINE PV-TECH Co.,Ltd.

**10** 10 YEARS PRODUCT WARRANTY

**25** 25 YEARS OUTPUT GUARANTEE

## KEY FEATURES



### Light-weight Design

Optimized composite materials, max to 70% lighter at the same power



### Flexibility

Industry-leading composite materials and unique encapsulation tech make lightweight strengthen module flexible and fit perfectly with curved surfaces.



### Customization

Customized design for different scenarios



### Easy transportation and installation

Original design making it far less costly for transportation and installation



### Anti PID

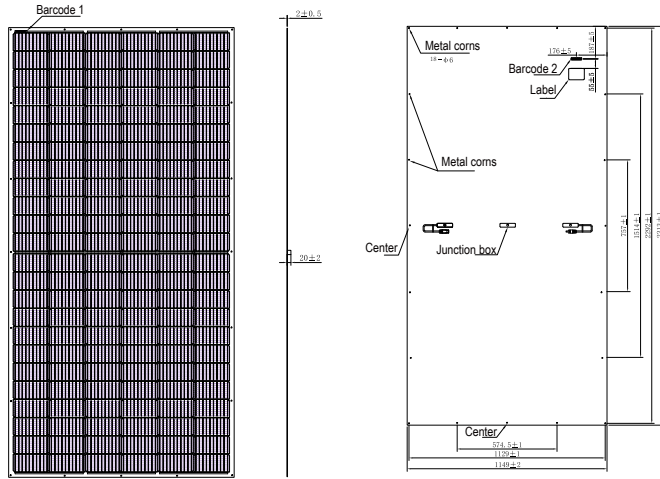
Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



### Better Weak Illumination Response

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

**DIMENSIONS OF PV MODULE(mm)**

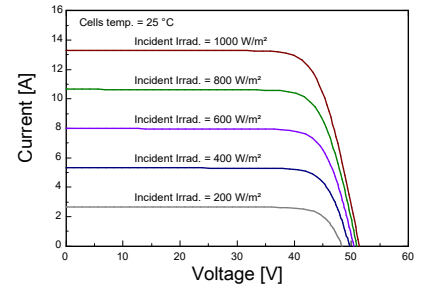


Front View

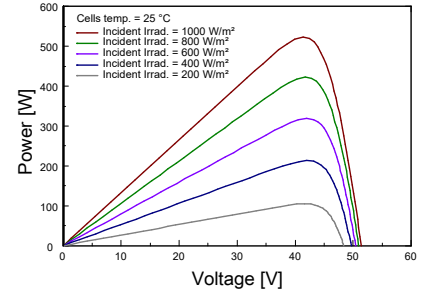
Back View

\*Remark: customized frame color and cable length available upon request

**I-V CURVES OF PV MODULE(520W)**



**P-V CURVES OF PV MODULE(520W)**



**ELECTRICAL CHARACTERISTICS | STC\***

Nominal Power Watt Pmax(W)*	500	505	510	515	520
Maximum Power Voltage Vmp(V)	41.60	41.80	42.00	42.20	42.40
Maximum Power Current Imp(A)	12.02	12.09	12.15	12.21	12.27
Open Circuit Voltage Voc(V)	50.60	50.80	51.00	51.20	51.40
Short Circuit Current Isc(A)	13.08	13.14	13.20	13.26	13.32
Module Efficiency (%)	18.81	19.00	19.19	19.38	19.57

\*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%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

**MECHANICAL DATA**

Solar cells	Mono PERC
Cells orientation	144 (6×24)
Module dimension	2313×1149×2 mm (Frameless,JB Included)
Weight	8.0 ±1.0 kg
Backsheet	White
Junction box	IP 68, 3 diodes
Cables	4 mm² ,1200 mm (With Connectors)
Connectors*	MC4-compatible

\*Please refer to regional datasheet for specified connector

**ELECTRICAL CHARACTERISTICS | NMOT**

Maximum Power Pmax(Wp)	380.30	384.00	387.70	391.30	422.90
Maximum Power Voltage Vmpp(V)	38.10	38.30	38.50	38.70	41.70
Maximum Power Current Impp(A)	9.98	10.03	10.08	10.12	10.14
Open Circuit Voltage Voc(V)	47.40	47.60	47.80	48.00	51.00
Short Circuit Current Isc(A)	10.56	10.61	10.66	10.71	10.66

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

**TEMPERATURE RATINGS**

NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.36%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.29%/°C	Maximum series fuse	25 A
Temperature coefficient of Isc	0.05%/°C		

\*Remark: 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.  
 \*Caution: 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.

**PACKAGING CONFIGURATION \***

Piece/Box	80
Piece/Container(40'HQ)	1280

\*Customized packaging is available upon request.