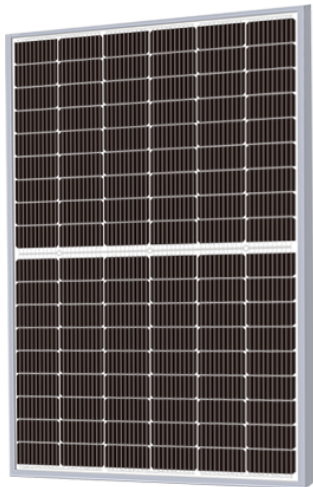




# ZXM7-SH108 Series

10BB HALF-CELL N-Type TOPCon  
Monocrystalline PV Module

**425-440W**

**POWER RANGE**

**22.53%**

**MAXIMUM EFFICIENCY**

**0.50%**

**YEARLY DEGRADATION**

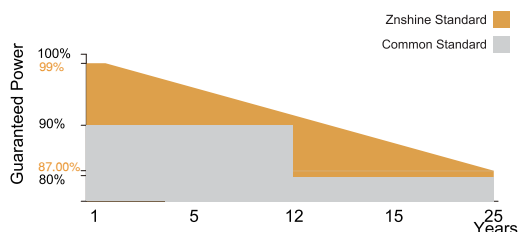
12 years product warranty for general application  
15 years product warranty for Rooftop PV system  
25 years output warranty / 0.50% Annual Degradation over 25 years



**12 YEARS PRODUCT WARRANTY**



**25 YEARS OUTPUT GUARANTEE**



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



IEC 61215/IEC 61730

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System

\*As there are different certification requirements in different markets, please contact your local znshine sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

## KEY FEATURES



### Excellent Cells Efficiency

SMBB technology reduce the distance between busbars 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.



### TIER 1

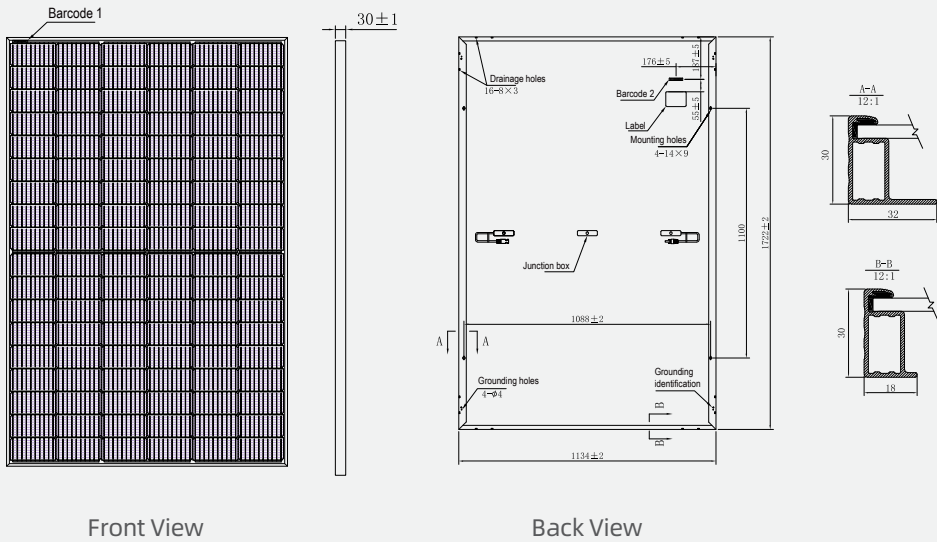
Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



### Excellent Quality Management System

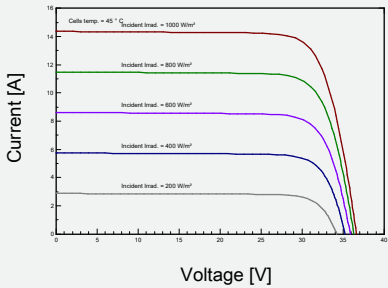
Warranted reliability and stringent quality assurances well beyond certified requirements.

DIMENSIONS OF PV MODULE(mm)

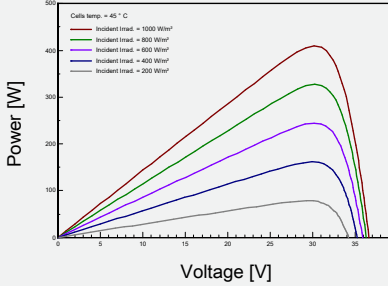


\*Remark: customized frame color and cable length available upon request

I-V CURVES OF PV MODULE(435W)



P-V CURVES OF PV MODULE(435W)



ELECTRICAL CHARACTERISTICS | STC\*

| Module Type                  | ZXM7<br>SH108-425/N | ZXM7<br>SH108-430/N | ZXM7<br>SH108-435/N | ZXM7<br>SH108-440/N |
|------------------------------|---------------------|---------------------|---------------------|---------------------|
| Nominal Power Watt Pmax(W)*  | 425±5               | 430±5               | 435±5               | 440±5               |
| Maximum Power Voltage Vmp(V) | 31.70               | 31.90               | 32.10               | 32.30               |
| Maximum Power Current Imp(A) | 13.41               | 13.49               | 13.56               | 13.63               |
| Open Circuit Voltage Voc(V)  | 38.20               | 38.40               | 38.60               | 38.80               |
| Short Circuit Current Isc(A) | 14.11               | 14.17               | 14.23               | 14.29               |
| Module Efficiency (%)        | 21.76               | 22.02               | 22.28               | 22.53               |

\*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       | N-type Monocrystalline                                                                          |
| Cells orientation | 108 (6×18)                                                                                      |
| Module dimension  | 1722 ×1134×30 mm (With Frame)                                                                   |
| Weight            | 20.5±1.0 kg                                                                                     |
| Glass             | 3.2mm, High Transmission, AR Coated Tempered Glass                                              |
| Junction box      | PV-XT1609Nxyz, IP 68, 3 diodes                                                                  |
| Cables            | H1Z2Z2-K 1×4,0mm²                                                                               |
| Connectors*       | PV-XT101.1 Suzhou Xtong Photovoltaic Technologies Co., Ltd.<br>PV Modules manufactured in china |

\*Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT

|                               |        |        |        |        |
|-------------------------------|--------|--------|--------|--------|
| Maximum Power Pmax(Wp)        | 320.90 | 324.80 | 328.50 | 332.20 |
| Maximum Power Voltage Vmpp(V) | 29.90  | 30.10  | 30.30  | 30.50  |
| Maximum Power Current Impp(A) | 10.73  | 10.78  | 10.83  | 10.87  |
| Open Circuit Voltage Voc(V)   | 36.00  | 36.20  | 36.40  | 36.60  |
| Short Circuit Current Isc(A)  | 11.39  | 11.44  | 11.48  | 11.53  |

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

TEMPERATURE RATINGS

|                                 |                  |
|---------------------------------|------------------|
| NMOT                            | 44°C ±2°C        |
| Temperature coefficient of Pmax | (-0.30±0.03)%/°C |
| Temperature coefficient of Voc  | -0.25%/°C        |
| Temperature coefficient of Isc  | 0.046%/°C        |

WORKING CONDITIONS

|                         |                                     |
|-------------------------|-------------------------------------|
| Maximum system voltage  | 1500 V DC                           |
| Operating temperature   | -40°C~+85°C                         |
| Maximum series fuse     | 25 A                                |
| Maximum load front/back | 3600/1600<br>with safety factor 1.5 |
| Fire safety class       | Class 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              | 36  |
| Piece/Container(40'HQ) | 936 |

\*Customized packaging is available upon request.