

ZXM6-NHB144 Series

9BB HALF-CELL Monocrystalline PERC PV Module

430-460W

POWER RANGE

20.74%

MAXIMUM EFFICIENCY

0.55%

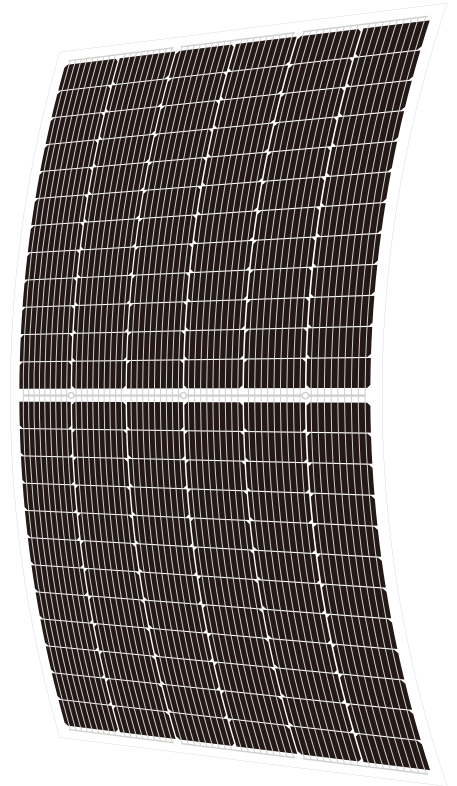
YEARLY DEGRADATION



3 YEARS PRODUCT WARRANTY



5 YEARS OUTPUT GUARANTEE



KEY FEATURES



Light-weight Design

70% lighter than conventional module by replacing the glass and optimizing the frame.



Flexibility

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



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.



TIER 1

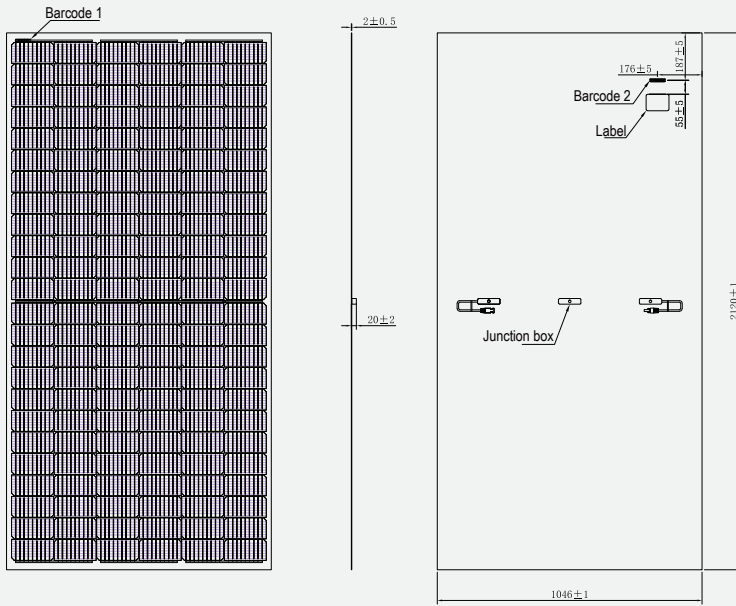
Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.

DIMENSIONS OF PV MODULE(mm)

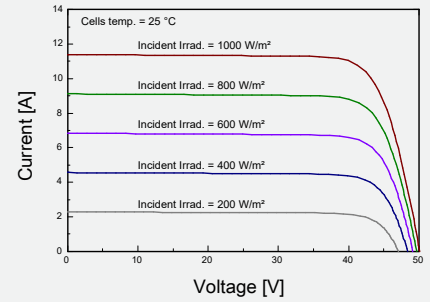


Front View

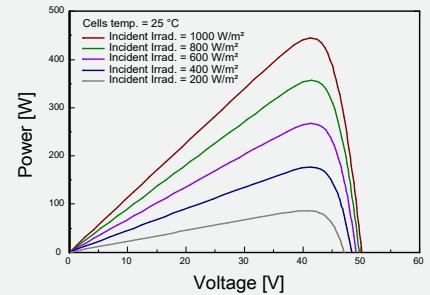
Back View

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

I-V CURVES OF PV MODULE(445W)



P-V CURVES OF PV MODULE(445W)



ELECTRICAL CHARACTERISTICS | STC*

| | | | | | | | |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Nominal Power Watt Pmax(W)* | 430 | 435 | 440 | 445 | 450 | 455 | 460 |
| Maximum Power Voltage Vmp(V) | 40.60 | 40.80 | 41.00 | 41.20 | 41.40 | 41.60 | 41.80 |
| Maximum Power Current Imp(A) | 10.60 | 10.67 | 10.74 | 10.81 | 10.87 | 10.94 | 11.01 |
| Open Circuit Voltage Voc(V) | 49.50 | 49.70 | 49.90 | 50.10 | 50.30 | 50.50 | 50.70 |
| Short Circuit Current Isc(A) | 11.19 | 11.26 | 11.33 | 11.40 | 11.46 | 11.53 | 11.60 |
| Module Efficiency (%) | 19.39 | 19.62 | 19.84 | 20.07 | 20.29 | 20.52 | 20.74 |

*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 | 2120×1046×2 mm (Frameless,JB Included) |
| Weight | 5.0 ±1.0 kg |
| Backsheet | White |
| Junction box | IP 68, 3 diodes |
| Cables | 4 mm² ,350 mm (With Connectors) |
| Connectors* | MC4-compatible |

*Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT

| | | | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Maximum Power Pmax(Wp) | 321.50 | 325.20 | 328.90 | 332.70 | 336.10 | 339.80 | 343.60 |
| Maximum Power Voltage Vmpp(V) | 37.90 | 38.10 | 38.20 | 38.40 | 38.60 | 38.80 | 39.00 |
| Maximum Power Current Impp(A) | 8.49 | 8.54 | 8.60 | 8.66 | 8.70 | 8.76 | 8.81 |
| Open Circuit Voltage Voc(V) | 46.20 | 46.40 | 46.60 | 46.70 | 46.90 | 47.10 | 47.30 |
| Short Circuit Current Isc(A) | 9.04 | 9.09 | 9.15 | 9.21 | 9.25 | 9.31 | 9.37 |

*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 | 20 A |
| Temperature coefficient of Isc | 0.05%/°C | Front Side Maximum Static Loading | Up to 5400 Pa |
| | | Rear Side Maximum Static Loading | Up to 2400 Pa |

*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 | 46 |
| Piece/Container(40'HQ) | 920 |

*Customized packaging is available upon request.