

# ZXM6-NH156 Series

Znshinesolar 9BB HALF-CELL  
Monocrystalline PERC PV Module

420W | 425W | 430W | 435W | 440W | 445W



## 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



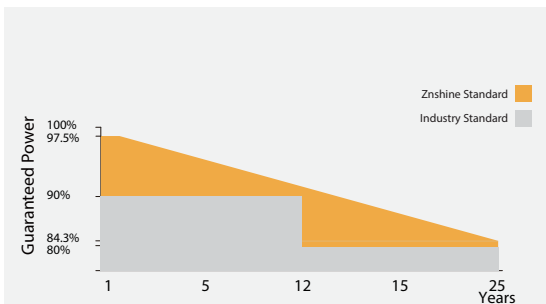
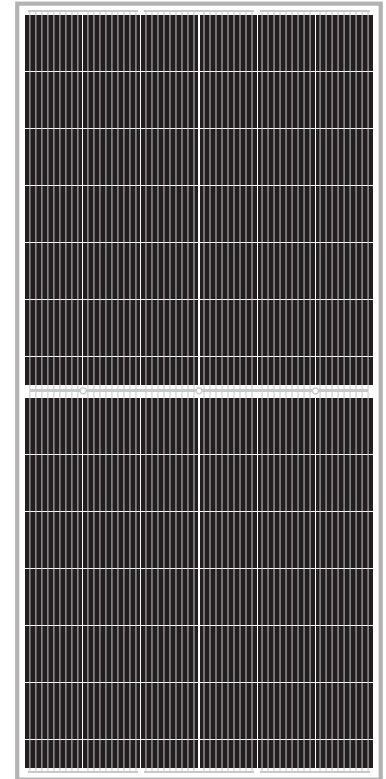
## 25 years power warranty

Even 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



Founded in 1988, ZNShine solar is a world's leading high-tech PV module manufacturer. With the state-of-the-art production lines, the company boasts module capacity of 6GW. Bloomberg has listed ZNShine as a global Tier 1 PV module maker. Today Znshine has distributed its sales to more than 60 countries around the globe.

**ELECTRICAL CHARACTERISTICS | STC\***

Module Type	ZXM6-NH156 -420/M	ZXM6-NH156 -425/M	ZXM6-NH156 -430/M	ZXM6-NH156 -435/M	ZXM6-NH156 -440/M	ZXM6-NH156 -445/M
Nominal Power Watt Pmax(W)	420	425	430	435	440	445
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	44.2	44.5	44.8	45.1	45.4	45.7
Maximum Power Current Imp(A)	9.51	9.56	9.60	9.65	9.70	9.74
Open Circuit Voltage Voc(V)	53.0	53.3	53.6	53.9	54.2	54.5
Short Circuit Current Isc(A)	10.06	10.10	10.14	10.18	10.22	10.27
Module Efficiency (%)	19.21	19.44	19.67	19.90	20.12	20.35

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, AM 1.5

**ELECTRICAL CHARACTERISTICS | NMOT\***

Maximum Power Pmax(Wp)	313.2	316.8	320.2	324.1	327.8	331.3
Maximum Power Voltage Vmpp(V)	41.0	41.3	41.6	41.9	42.2	42.4
Maximum Power Current Impp(A)	7.64	7.67	7.70	7.74	7.77	7.81
Open Circuit Voltage Voc(V)	49.4	49.7	50.0	50.2	50.5	50.8
Short Circuit Current Isc(A)	8.12	8.16	8.19	8.22	8.25	8.29

\*NMOT(Nominal module operating temperature):Irradiance 800W/m<sup>2</sup>,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

**Temperature ratings**

NMOT	44°C ±3°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C

\*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

**Working conditions**

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/wind)	5400 Pa / 2400 Pa

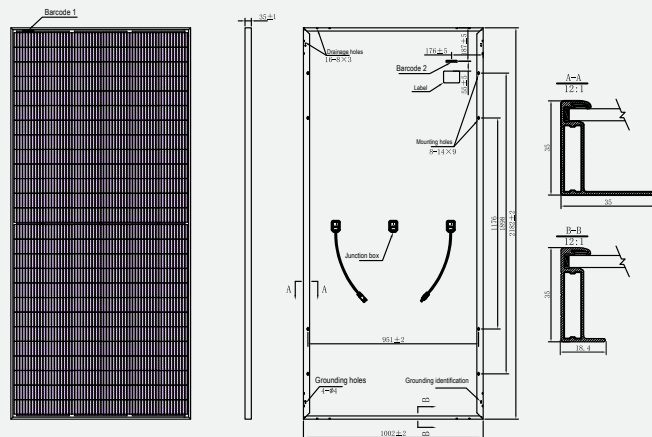
**Mechanical data**

Solar cells	Mono PERC
Cells orientation	156 (6×26)
Module dimension	2182×1002×35 mm(With Frame)
Weight	24 kg
Glass	3.2mm, High Transmission, AR Coated Tempered Glass
Junction box	IP 68, 3 diodes
Cables	4 mm <sup>2</sup> , 350 mm
Connectors	MC4-compatible

**Packaging Configuration**

Packing Type	40'HQ
Piece/Box	30
Piece/Container	650/700

**Dimensions(mm)**



**I-V Curves**

