

ZXM6-NH144 Series

Znshinesolar 9BB **HALF-CELL** Monocrystalline PV Module



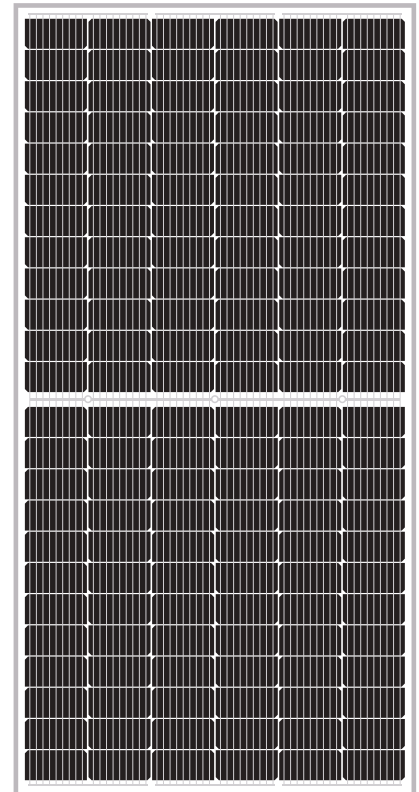
144

Mono Poly Solutions

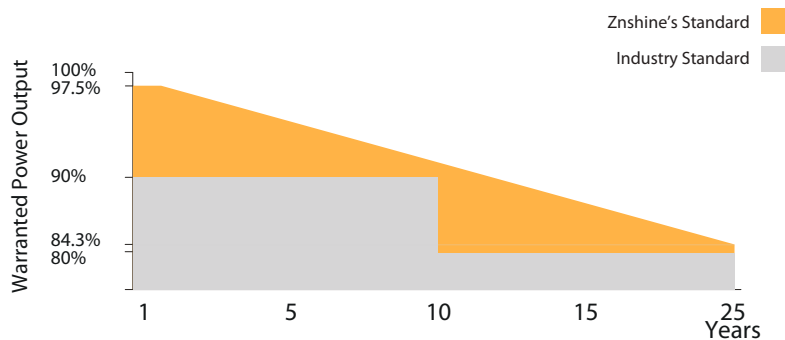
420W | 425W | 430W | 435W | 440W | 445W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-NH144 monocrystalline modules by ZNSHINE SOLAR(power output 420 up to 445Wp, represent a highly flexible solution for diverse installation types, from industrial rooftop plants to small home PV systems or large ground surfaces. This allows you to produce clean energy whilst reducing your energy bill.

ZNSHINE SOLAR' S ZXM6-NH144 Monocrystalline solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product. The linear warranty on product outputs further ensures increased security and return on investments over time.



- 12 years product warranty for general application**
- 15 years product warranty for Rooftop PV system**
- 25 years output warranty / 0.55% Annual Degradation over 25 years**



9 Busbar Solar Cell
 No power loss thanks to improved temperature co-efficient caused by 9 busbar solar cell

Better Weak Illumination Response
 Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings

Easy to install
 The module is very light in weight so the installation is easier and transport costs are lower



ZNShine PV-Tech Co., LTD, founded in 1988, is a world-leading high-performance PV module manufacturer, PV power station developer, EPC and power station operator. With its state-of-the-art production lines, the company boasts module output of 5GW. Bloomberg has listed ZNShine as a global Tier 1 PV manufacturer and Top 4 reliable PV supplier.

www.znshinesolar.com

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-NH144-420/M	ZXM6-NH144-425/M	ZXM6-NH144-430/M	ZXM6-NH144-435/M	ZXM6-NH144-440/M	ZXM6-NH144-445/M
Nominal Power Watt Pmax(W)	420	425	430	435	440	445
Power Output Tolerance Pmax(%)	420±3%	425±3%	430±3%	435±3%	440±3%	445±3%
Maximum Power Voltage Vmp(V)	40.2	40.4	40.6	40.8	41.0	41.2
Maximum Power Current Imp(A)	10.45	10.52	10.60	10.67	10.74	10.81
Open Circuit Voltage Voc(V)	49.1±3%	49.3±3%	49.5±3%	49.7±3%	49.9±3%	50.1±3%
Short Circuit Current Isc(A)	11.04±3%	11.11±3%	11.19±3%	11.26±3%	11.33±3%	11.40±3%
Module Efficiency (%)	19.32	19.55	19.78	20.01	20.24	20.47

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5
 *The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NOCT*

Maximum Power Pmax(Wp)	313.9	317.5	321.5	325.2	328.9	332.7
Maximum Power Voltage Vmpp(V)	37.5	37.7	37.9	38.1	38.2	38.4
Maximum Power Current Imp(A)	8.36	8.42	8.49	8.54	8.60	8.66
Open Circuit Voltage Voc(V)	45.8	46.0	46.2	46.4	46.6	46.7
Short Circuit Current Isc(A)	8.92	8.97	9.04	9.09	9.15	9.21

*NOCT(Nominal Operating Cell Temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s
 *The data above is for reference only and the actual data is in accordance with the practical testing

TEMPERATURE RATINGS

NOCT	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 front/back	3600/1600 with safety factor 1.5

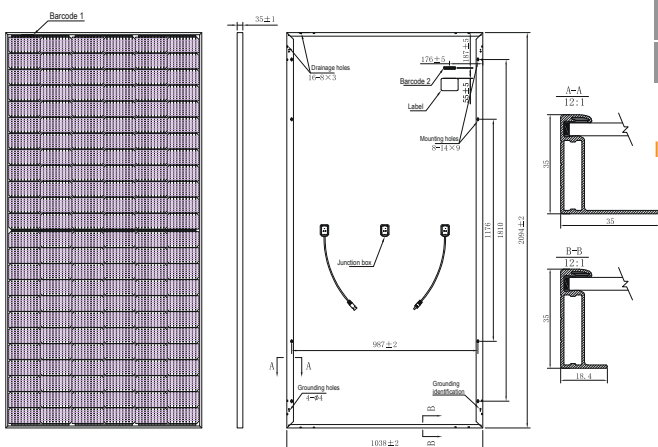
MECHANICAL DATA

Solar cells	166×83 mm
Cells orientation	144 (6×24)
Module dimension	2094×1038×35 mm
Weight	24 kg
Glass	High transparency,low iron,tempered Glass 3.2 mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	H1Z2Z2-K 1×4,0mm ²
Connectors	LJQ-3 Taizhou jinxiu Electrical Science & Technology Co., Ltd. manufactured in China

PACKAGING INFORMATION

Packing Type	40' HQ
Piece/Box	30
Piece/Container	660

DIMENSION OF THE PV MODULE (mm)



I-V CURVES OF THE PV MODULE

