ZXM6-NH144 Series

Znshinesolar 9BB HALF-CELL Monocrystalline PV Module

Mono

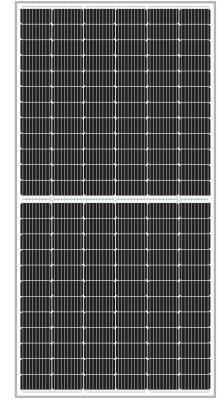
425W | 430W | 435W | 440W | 445W | 450W

Made with selected materials and components to ensure quality, longevity, efficiency and stable outputs, the ZXM6-NH144 monocrystalline modules by ZNSHINE SOLAR represents a highly flexible solution for diverse installation types, from small home PV systems to industrial rooftop plants to large utility arrays.

ZNSHINE SOLAR' S ZXM6-NH144 monocrystalline solar modules are tested and approved by internationally recognized laboratories so that we can offer our global customers a reliable and price-quality optimized product. The linear warranty on the product output further secures increased stability and financial returns on investments over time.

12 years product warranty/25 years output warranty





ZNSHINESOLAR

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High Efficiency

A high efficiency PERC solar cell with 9 busbars technology to ensure the efficiency of the solar module up to 20.70% and stable operation



9BB

9 Busbar Solar Cell

Limited power degradation of ZXM6-NH144 module caused by PID effect is guaranteed under strict testing condition for mass production

No power loss thanks to improved temperature

co-efficient caused by 9 busbar solar cell

Certified to withstand the most challenging environmental conditions 5400 Pa snow load 2400 Pa wind load



Better Weak Illumination Response

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



Grahpene Coating(Optional*)

Graphene coating modules can increase power generation and self-cleaning, also can save maintainance cost * can be customized



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.

ZXM6-NH144 Series Znshinesolar 9BB HALF-CELL monocrystalline PV Module



ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6- NH144-425/M	ZXM6- NH144-430/M	ZXM6- NH144-435/M	ZXM6- NH144-440/M	ZXM6- NH144-445M	ZXM6- NH144-450/M	
Nominal Power Watt Pmax(W)	425	430	435	440	445	450	
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3	
Maximum Power Voltage Vmp(V)	40.4	40.6	40.8	41.0	41.2	41.4	
Maximum Power Current Imp(A)	10.52	10.60	10.67	10.74	10.81	10.88	
Open Circuit Voltage Voc(V)	49.3	49.5	49.7	49.9	50.1	50.3	
Short Circuit Current Isc(A)	11.11	11.19	11.26	11.33	11.40	11.47	
Module Efficiency (%)	19.55	19.78	20.01	20.24	20.47	20.70	

*STC (Standard Test Condition): Irradiance 1000W/n², Module Temperature 25°C, AM 1.5 *The data above is for reference only and the actual data is in accordance with the pratical testing

ELECTRICAL PROPETIES | NOCT/NMOT*

Maximum Power Pmax(Wp)	317.5	321.5	325.2	328.9	332.7	336.4	
Maximum Power Voltage Vmpp(V)	37.7	37.9	38.1	38.2	38.4	38.6	
Maximum Power Current Impp(A)	8.42	8.49	8.54	8.60	8.66	8.72	
Open Circuit Voltage Voc(V)	46.0	46.2	46.4	46.6	46.7	46.9	
Short Circuit Current Isc(A)	8.97	9.04	9.09	9.15	9.21	9.27	

*NMOT(Nominal module operating 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 pratical testing

TEMPERATURE RATINGS

MECHANICAL DATA

NMOT	44℃ ±2℃
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of lsc	0.05%/°C

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

WORKING CONDITIONS

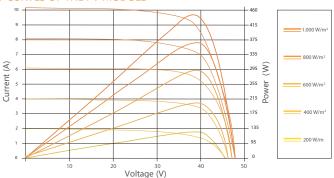
Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	20 A
Maximum load(snow/wind)	5400 Pa / 2400 Pa

Solar cells	166×83 mm
No. of Cells	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	4 mm ² ,350 mm or Customized Length
Connectors	MC4-compatible or Customized Connectors

PACKAGING INFORMATION

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

I-V CURVES OF THE PV MODULE



Remark: please read safety and installation instructions before using the product | Subject to change without prior notice © ZNSHINE SOLAR 2020 | Version: ZXM6-NH144-2005.E



DIMENSION OF THE PV MODULE (mm)



Barcode 1

