

PRODUCT CATALOGUE 2020



Solarever USA



www.solareverusa.com

SOLAREVER USA, SOLAR PANELS WITH HIGH QUALITY MADE IN MEXICO

**Variety in cells and solar panels with high photovoltaic technology.
the future to reliable, powerful, and sustainable energy supply
Today and for future generations.**

THINK SOLAR, ACT GREEN.

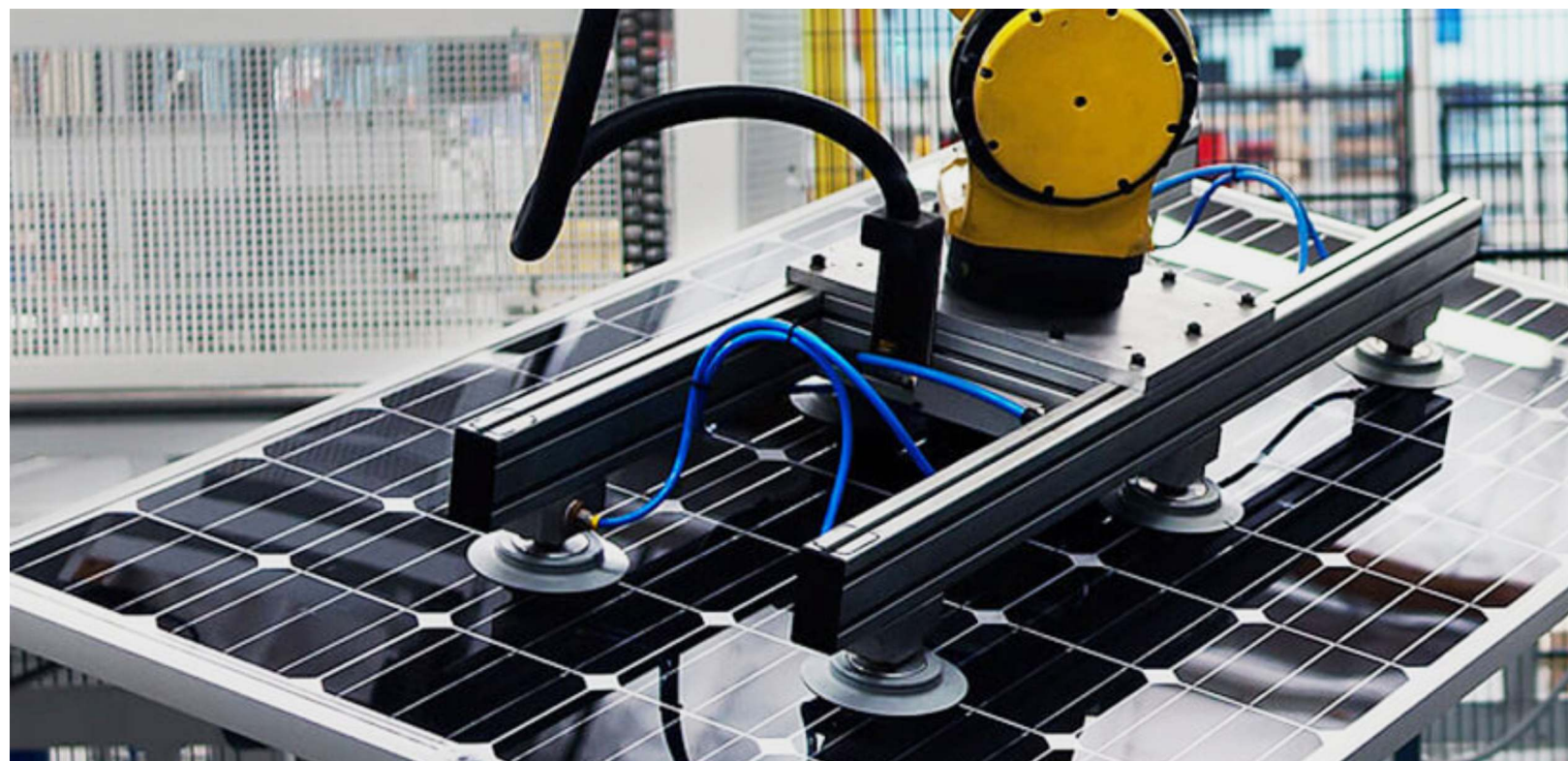
Solarever USA and ZNShine Solar offer a Wide-ranging product portfolio from Solar Modules and cells to complete systems for private, industrial and commercial rooftop installations, reaching up to turn key Solar power plants. We have a technology and innovation facility in Mexico where we develop and test our products until they are ready for serial production. This way they can be marketed through our international distribution network.



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AN ALLICE OF TECHNOLOGY AND FINANCE

Since 2016, Solarever USA has been part of the ZNShine Solar family, that at the same time is part of the Solar Elite Group. Founded in 1986, ZNShine Solar is now one of the eight largest companies in the group with presence in China and Mexico. This elite group gathers companies from more than 25 countries and three main business areas: production and construction, finance, and Services and Leisure. Through this strong, long Term alliance, we are ideally positioned both Financially and technologically for the future.



ZXM6-60 Series

Znshinesolar **5BB** Monocrystalline PV Module



Solarever USA



Mono

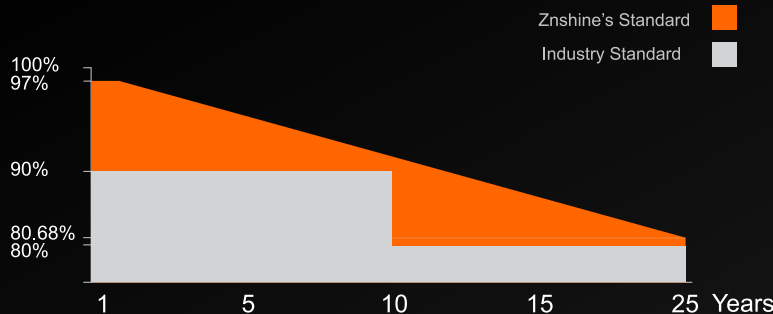
295W | 300W | 305W | 310W | 315W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-60 monocrystalline modules by ZNSHINE SOLAR 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 while reducing your energy bill.

ZNSHINE SOLAR' S ZXM6-60 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

10 years workmanship warranty/25 years output warranty

0.68% Annual Degradation over 25 years



Remark: Silver Frame,White backsheet or Black Frame,Black backsheet



Tier 1 & Bankable

Well known trade mark in China; Tier 1 bankable brand globally



High Efficiency

Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Anti PID

Limited power degradation of ZXM6-72 module caused by PID effect is guaranteed under strict testing condition for mass production



Better Weak Illumination Response

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



Certified to withstand the most challenging environmental conditions

5400 Pa snow load
2400 Pa wind load



Customerization-Graphene Coating

Graphene coating modules can increase power generation and self-cleaning, also can save maintenance cost



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.

Solarever de América S.A de C.V, founded in 2002, is currently the number one PV module manufacturer in Mexico.



ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-60-295/M	ZXM6-60-300/M	ZXM6-60-305/M	ZXM6-60-310/M	ZXM6-60-315/M
Nominal Power Watt Pmax(W)	295	300	305	310	315
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	32.2	32.4	32.7	32.9	33.1
Maximum Power Current Imp(A)	9.17	9.26	9.33	9.43	9.52
Open Circuit Voltage Voc(V)	39.5	39.7	39.9	40.1	40.3
Short Circuit Current Isc(A)	9.67	9.75	9.85	9.95	10.05
Module Efficiency (%)	18.02	18.33	18.63	18.94	19.24

*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 | NMOT*

Maximum Power Pmax(Wp)	219.0	222.3	225.8	229.3	232.4
Maximum Power Voltage Vmpp(V)	29.8	30.2	30.4	30.6	30.6
Maximum Power Current Imp(A)	7.34	7.36	7.42	7.49	7.61
Open Circuit Voltage Voc(V)	36.6	36.7	36.9	37.1	37.3
Short Circuit Current Isc(A)	7.81	7.81	7.88	7.96	8.12

*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 practical testing

TEMPERATURE RATINGS

NMOT	45°C ±2°C
Temperature coefficient of Pmax	-0.39%/K
Temperature coefficient of Voc	-0.29%/K
Temperature coefficient of Isc	0.05%/K

MECHANICAL DATA

Solar cells	Mono 156.75×156.75 mm
Cells orientation	60 (6×10)
Module dimension	1640×992×35 mm
Weight	18.5 kg
Glass	High transparency,low iron,tempered
Glass dimension	Glass 3.2 mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm ² , 900 mm
Connectors	MC4-compatible

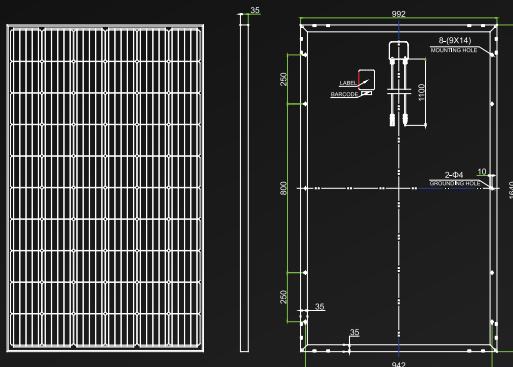
WORKING CONDITIONS

Maximum system voltage	1000 / 1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	15 A
Maximum load (snow/wind)	5400 Pa / 2400 Pa

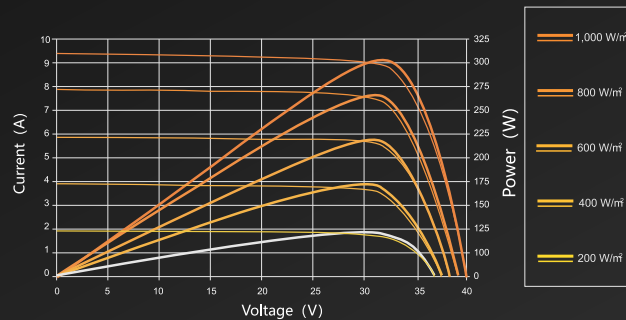
PACKAGING INFORMATION

Packing Type	40' HQ	53' Trailer
Piece/Box	30	30
Piece/Container	840	1020

DIMENSION OF THE MODULE (mm)



I-V CURVES OF THE PV MODULE



ZXM6-72 Series

Znshinesolar **5BB** Monocrystalline PV Module



Mono

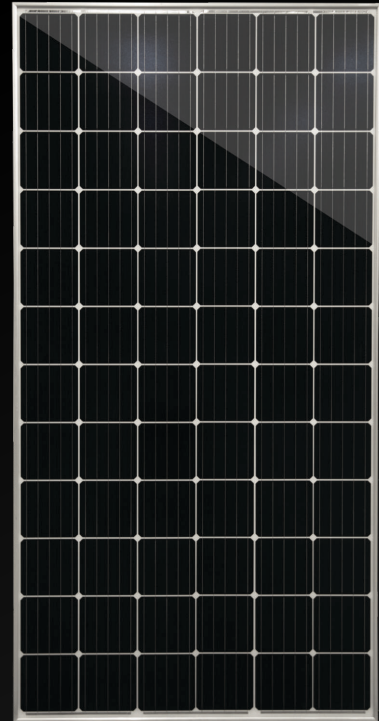
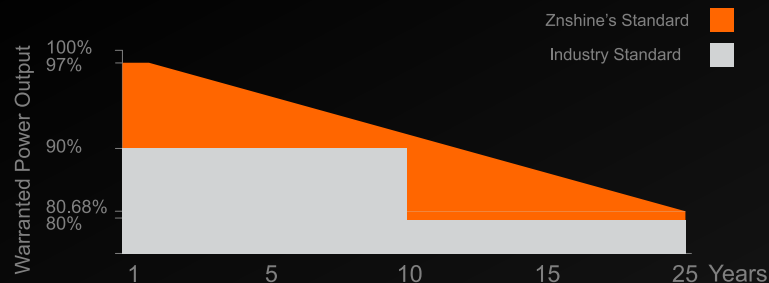
355W | 360W | 365W | 370W | 375W | 380W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the ZXM6-72 monocrystalline modules by ZNSHINE SOLAR(power output 355 up to 380Wp, 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 while reducing your energy bill.

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ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-72-355/M	ZXM6-72-360/M	ZXM6-72-365/M	ZXM6-72-370/M	ZXM6-72-375/M	ZXM6-72-380/M
Nominal Power Watt Pmax(W)	355	360	365	370	375	380
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	38.9	39.1	39.3	39.5	39.7	39.9
Maximum Power Current Imp(A)	9.13	9.21	9.29	9.37	9.45	9.53
Open Circuit Voltage Voc(V)	47.6	47.7	48.0	48.2	48.4	48.6
Short Circuit Current Isc(A)	9.66	9.80	9.84	9.91	9.98	10.03
Module Efficiency (%)	18.26	18.52	18.77	19.03	19.29	19.54

*The data above is for reference only and the actual data is in accordance with the practical testing

ELECTRICAL PROPERTIES | NMOT*

Maximum Power Pmax(Wp)	262.6	265.7	269.5	273.3	277.8	281.1
Maximum Power Voltage Vmpp(V)	36.0	36.0	36.3	36.5	36.6	36.9
Maximum Power Current Imp(A)	7.30	7.38	7.43	7.49	7.59	7.62
Open Circuit Voltage Voc(V)	44.1	44.1	44.4	44.6	44.8	44.9
Short Circuit Current Isc(A)	7.81	7.92	7.95	8.01	8.06	8.10

*NMOT(Nominal module operating temperature):Irradiance 800W/m²

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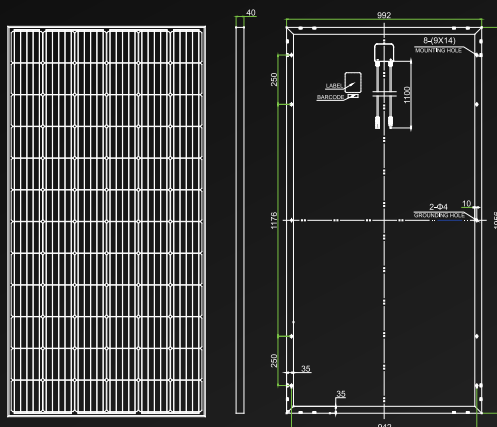
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MECHANICAL DATA

Solar cells	Mono 156.75×156.75 mm
Cells orientation	72 (6×12)
Module dimension	1956×992×40 mm
Weight	22 kg
Glass	High transparency, low iron, tempered
Glass dimension	Glass 3.2 mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm ² , 1100 mm
Connectors	MC4-compatible

DIMENSION OF THE MODULE (mm)



PACKAGING INFORMATION

Packing Type	40' HQ	53' Trailer
Piece/Box	27	27
Piece/Container	648	810

I-V CURVES OF THE PV MODULE

