

ZXM6-T60 Series

Znshinesolar 12BB Monocrystalline PV Module



60

Mono Poly Solutions

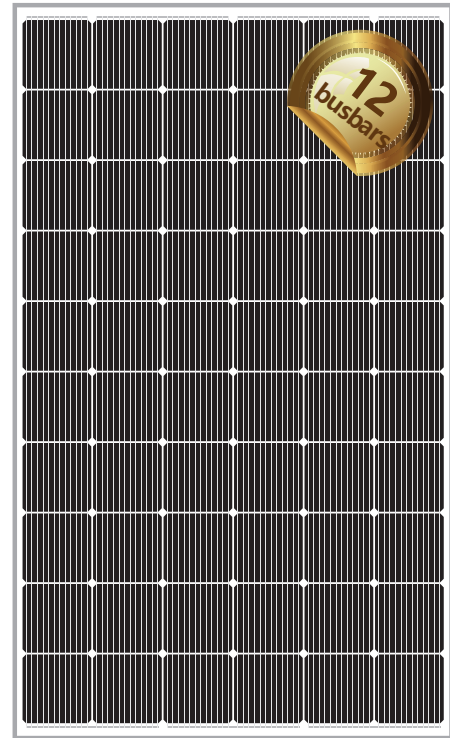
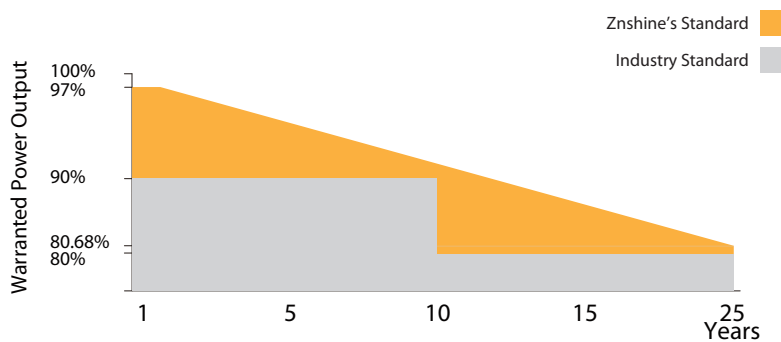
290W | 295W | 300W | 305W | 310W | 315W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the 60-cell 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 60-cell 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.

10 years product warranty/25 years output warranty

0.68% Annual Degradation over 25 years



Innovative Solar Cells

12-busbar, dense busbars shorten the current conduction distances between bars and lower serial resistance



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-T60 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

2400 Pa wind load
5400 Pa snow 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.

ELECTRICAL PROPERTIES | STC*

Module Type	ZXM6-T60-290/M	ZXM6-T60-295/M	ZXM6-T60-300/M	ZXM6-T60-305/M	ZXM6-T60-310/M	ZXM6-T60-315/M
Nominal Power Watt Pmax(W)	290	295	300	305	310	315
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	32.1	32.3	32.5	32.8	33.0	33.2
Maximum Power Current Imp(A)	9.04	9.14	9.24	9.30	9.40	9.49
Open Circuit Voltage Voc(V)	39.2	39.4	39.6	39.8	40.0	40.4
Short Circuit Current Isc(A)	9.51	9.60	9.70	9.80	9.90	10.05
Module Efficiency (%)	17.72	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)	215.3	219.0	222.8	226.2	230.1	233.6
Maximum Power Voltage Vmpp(V)	29.9	30.1	30.3	30.5	30.7	30.7
Maximum Power Current Impp(A)	7.19	7.26	7.35	7.42	7.50	7.60
Open Circuit Voltage Voc(V)	36.4	36.6	36.8	37.0	37.2	37.6
Short Circuit Current Isc(A)	7.68	7.75	7.83	7.91	8.00	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	44°C ±2°C
Temperature coefficient of Pmax	-0.38%/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	1650×992×35 mm
Weight	19.5 kg
Glass	High transparency,low iron,tempered glass 3.2 mm (AR-coating)
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,900 mm
Connectors	MC4-compatible

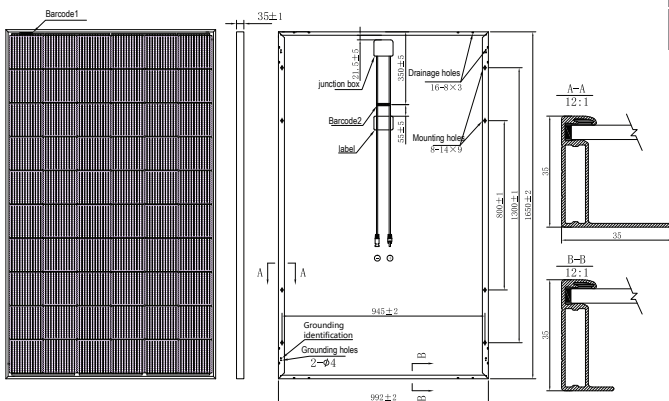
WORKING CONDITIONS

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
Piece/Box	30
Piece/Container	840 / 896

DIMENSION OF THE PV MODULE (mm)



I-V CURVES OF THE PV MODULE

