

ZXM6-TLD60 Series

Znshinesolar 12BB **light-weight** double glass mono PV module



60

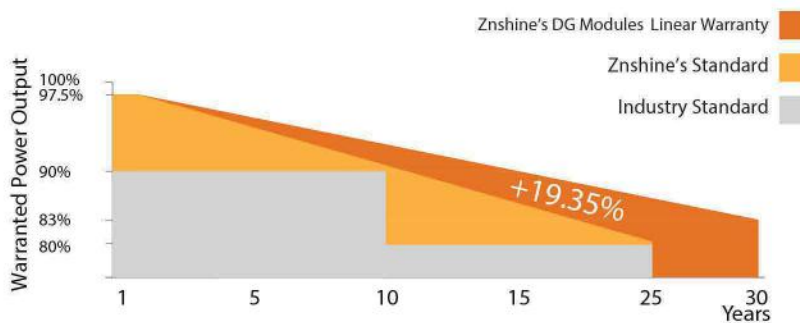
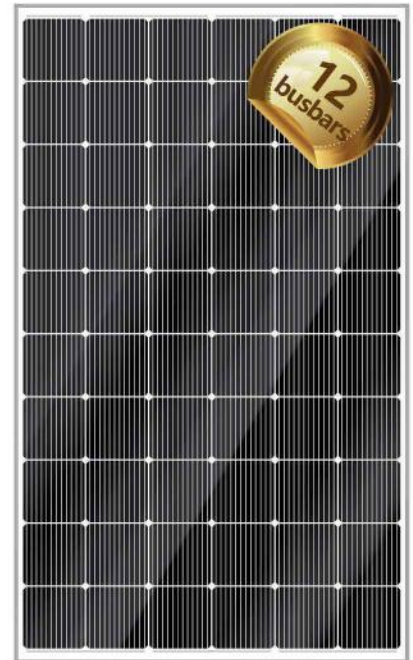
Mono Poly Solutions

300W | 305W | 310W | 315W | 320W

Made with selected materials and components to grant quality, duration, efficiency and through outputs, the D60-cell double glass modules by ZNSHINE SOLAR feature increased light transmission and have both decorative and shading functions. They represent the perfect choice for BIPV and BAPV construction applications. This allows you to produce clean energy whilst reducing your energy bill.

ZNSHINE SOLAR'S D60-cell double glass solar modules are tested and approved by international acknowledged laboratories, so that we can offer our customers a reliable and price-quality optimized product.

12 years product warranty for general double glass modules
15 years product warranty only for Residential Rooftop PV system
30 years output warranty/0.5% Annual Degradation over 30 years



 <p>Innovative Solar Cells 12-busbar , dense busbars shorten the current conduction distances between bars and lower serial resistance</p>	 <p>High Efficiency High module efficiency up to 18.85%</p>
 <p>Certified to withstand the most challenging environmental conditions 3600 Pa snow load (with safety factor 1.5) 2400 Pa wind load (with safety factor 1.5)</p>	 <p>Better Weak Illumination Response Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings</p>
 <p>Easy to install The module is very light in weight so the installation is easier and transport costs are lower</p>	 <p>Customerization We can customize the graphene glass modules with self-cleaning function according to customer requirements Graphene glass modules can increase light transmittance and increase component efficiency</p>



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-TLD60-300/M	ZXM6-TLD60-305/M	ZXM6-TLD60-310/M	ZXM6-TLD60-315/M	ZXM6-TLD60-320/M
Nominal Power Watt Pmax(W)	300	305	310	315	320
Power Output Tolerance Pmax(%)	300±3%	305±3%	310±3%	315±3%	320±3%
Maximum Power Voltage Vmp(V)	32.4	32.7	32.9	33.1	33.3
Maximum Power Current Imp(A)	9.26	9.33	9.43	9.52	9.61
Open Circuit Voltage Voc(V)	39.5±3%	39.7±3%	39.9±3%	40.1±3%	40.3±3%
Short Circuit Current Isc(A)	9.70±3%	9.80±3%	9.90±3%	10.00±3%	10.09±3%
Module Efficiency (%)	18.24	18.54	18.85	19.15	19.46

*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)	222.8	226.3	229.9	233.2	236.8
Maximum Power Voltage Vmpp(V)	30.3	30.5	30.7	30.7	30.9
Maximum Power Current Impp(A)	7.35	7.43	7.50	7.60	7.67
Open Circuit Voltage Voc(V)	36.7	36.9	37.1	37.2	37.4
Short Circuit Current Isc(A)	7.83	7.91	8.00	8.07	8.15

*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 ±2°C
Temperature coefficient of Pmax	-0.38%/K
Temperature coefficient of Voc	-0.29%/K
Temperature coefficient of Isc	0.05%/K

*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	15 A
Maximum load(snow/wind)	3600/2400 (with safety factor 1.5)

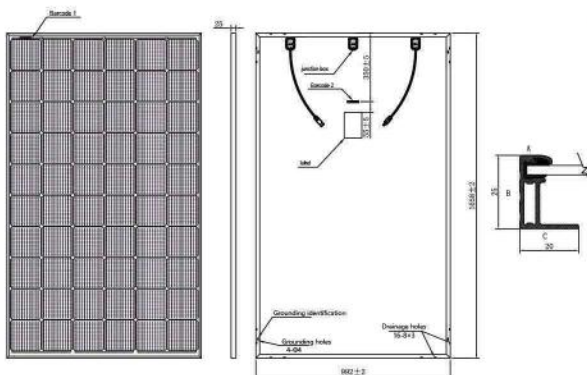
MECHANICAL DATA

Solar cells	Mono 156.75×156.75 mm/158×158 mm
Cells orientation	60 (6×10)
Module dimension	1658×992×25 mm(With Frame)
Weight	18 kg / 21 kg
Glass	(1.6+1.6mm)/(2.0+2.0mm) heat strengthened glass
Junction box	IP 68 , 3 diodes
Cables	H1Z2Z2-K 1×4,0mm ²
Connectors	LJQ-1 Taizhou Jinxiu Electrical Science & Technology Co Ltd
	manufactured in China

PACKAGING INFORMATION

Packing Type	40' GP
Piece/Box	42
Piece/Container	1176

DIMENSION OF THE PV MODULE (mm)



I-V CURVES OF THE PV MODULE

