

ZXM7-SPLD144 Series



Znshinesolar 10BB HALF-CELL Light-Weight
Double Glass Monocrystalline PERC PV Module

520W | 525W | 530W | 535W | 540W | 545W



Excellent Cell Efficiency

MBB technology decreases the distance between busbar and finger grid line which is benefit to power increase.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



TIER 1

Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing.



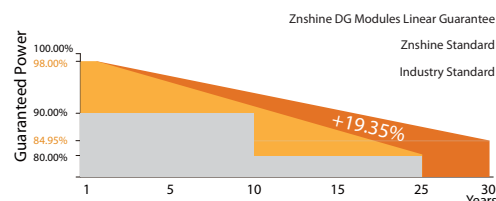
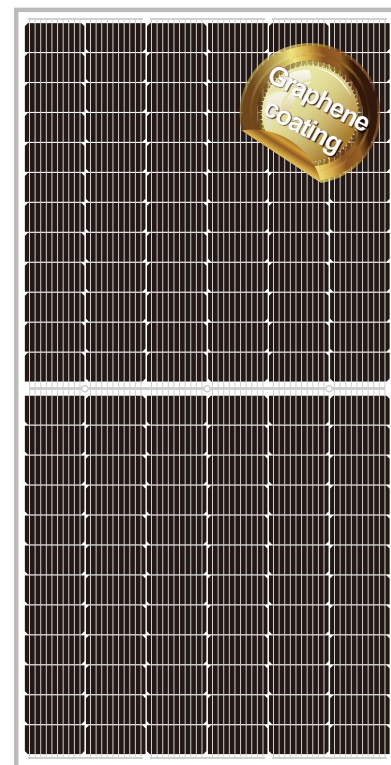
Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.



Graphene Coating

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



12 years product guarantee
30 years output guarantee



0.45% annual degradation
over 30 years



IEC61215/IEC61730/IEC61701/IEC62716/UL61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO45001: Occupational Health and Safety Management System

Founded in 1988, ZnShine solar is a world's leading high-tech PV module manufacturer. With the state-of-the-art production lines, the company boasts module capacity of 6GW. Bloomberg has listed ZnShine as a global Tier 1 PV module maker. Today Znshine has distributed its sales to more than 60 countries around the globe.

www.znshinesolar.com

ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	520	525	530	535	540	545
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	40.60	40.80	41.00	41.20	41.40	41.60
Maximum Power Current Imp(A)	12.82	12.88	12.94	13.00	13.05	13.11
Open Circuit Voltage Voc(V)	48.90	49.10	49.30	49.50	49.70	49.90
Short Circuit Current Isc(A)	13.54	13.60	13.66	13.72	13.78	13.84
Module Efficiency (%)	20.3	20.5	20.7	20.9	21.1	21.3

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5
 *Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	388.90	392.60	396.30	400.00	403.50	407.20
Maximum Power Voltage Vmpp(V)	37.80	38.00	38.20	38.30	38.50	38.70
Maximum Power Current Impp(A)	10.29	10.34	10.39	10.43	10.48	10.52
Open Circuit Voltage Voc(V)	45.70	45.90	46.10	46.20	46.40	46.60
Short Circuit Current Isc(A)	10.93	10.98	11.03	11.08	11.13	11.18

*NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s

MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	144 (6×24)
Module dimension	2256×1133×35 mm(With Frame)
Weight	33.5 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² , 1200 mm
Connectors	MC4-compatible

TEMPERATURE RATINGS WORKING CONDITIONS

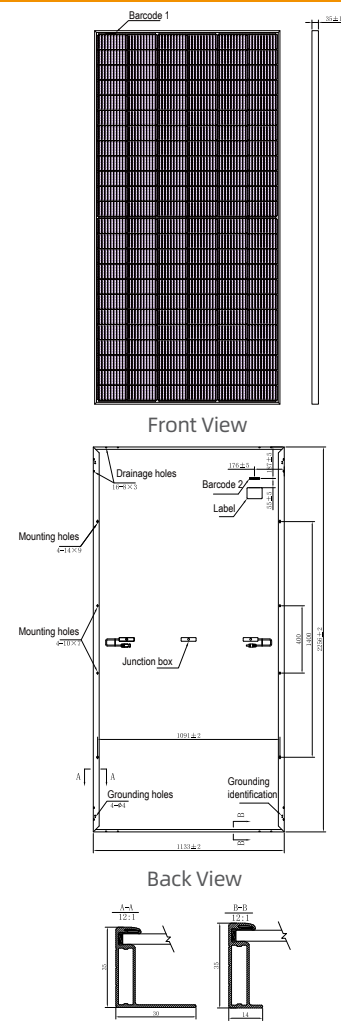
NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.35%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.29%/°C	Maximum series fuse	25 A
Temperature coefficient of Isc	0.05%/°C	Maximum load(snow/wind)	5400 Pa / 2400 Pa

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection
 *Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

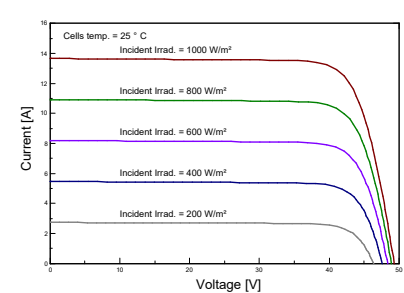
PACKAGING CONFIGURATION

Piece/Box	31
Piece/Container _(40'HQ)	620
Piece/Container _(with additional small package)	/

DIMENSIONS(MM)



I-V CURVES OF PV MODULE(530W)



P-V CURVES OF PV MODULE(530W)

