

ZXMR-UPLD120 Series

SMBB HALF-CELL N-Type Monofacial Double Glass
Monocrystalline PU Composite Framed PV Module

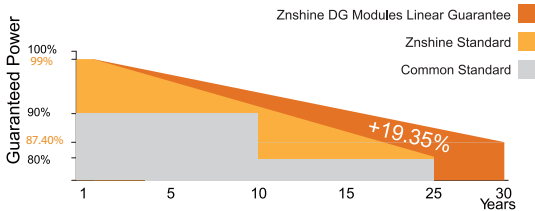
560-585W
POWER RANGE

22.6%
MAXIMUM EFFICIENCY

0.40%
YEARLY DEGRADATION

12 12 YEARS PRODUCT WARRANTY

30 30 YEARS OUTPUT GUARANTEE



*Please check the Limited Warranty for Standard PV Modules which is officially released by ZNSHINE PV-TECH Co.,Ltd.

KEY FEATURES



Ultra Low Carbon

CO₂ emissions only 10% of the AL frame.



Better Weak Illumination Response

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



High Insulation

PU composite frame: no grounding, reduce PID risk, improve safety, maintenance free.



Corrosion Resistant

Excellent humidity and heat resistance, anti-salt spray corrosion, suitable for offshore PV stations and other highly corrosive fields.



High Anti PID

PU composite frame, Super Anti-PID performance.



TIER 1

Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



High Anti-Glare

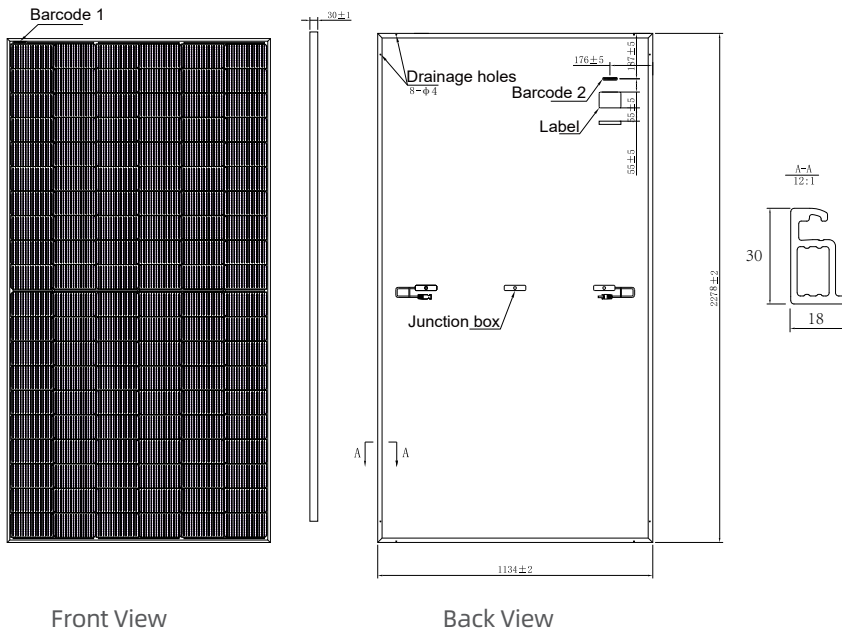
PU composite frame, Super Anti-Glare performance.



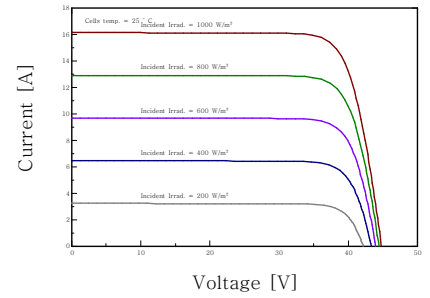
Natural Black Vision

Solar modules with a PU composite frame have a more uniform appearance and superior aesthetics.

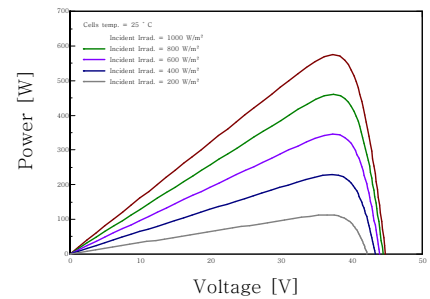
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(575W)



P-V CURVES OF PV MODULE(575W)



*Remark: customized frame color and cable length available upon request

ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	560	565	570	575	580	585
Maximum Power Voltage Vmp(V)	37.00	37.20	37.40	37.60	37.80	38.00
Maximum Power Current Imp(A)	15.14	15.19	15.25	15.30	15.35	15.40
Open Circuit Voltage Voc(V)	44.20	44.40	44.60	44.80	45.00	45.20
Short Circuit Current Isc(A)	16.01	16.06	16.11	16.16	16.22	16.27
Module Efficiency (%)	21.7	21.9	22.1	22.3	22.5	22.6

*The data above is for reference only and the actual data is in accordance with the practical testing
 *STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5
 *Measuring uncertainty: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

MECHANICAL DATA

Solar cells	N-type Monocrystalline, Rectangular cells
Cells orientation	120 (6×20)
Module dimension	2278×1134×30 mm (With Frame)
Weight	32.0±1.0 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm², 350 mm (With Connectors)
Connectors*	MC4-EVO2 compatible

*Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT

Maximum Power Pmax(Wp)	425.70	429.30	433.20	436.80	440.60	444.30
Maximum Power Voltage Vmp(V)	34.70	34.90	35.10	35.30	35.40	35.60
Maximum Power Current Imp(A)	12.27	12.31	12.35	12.39	12.43	12.47
Open Circuit Voltage Voc(V)	41.90	42.10	42.20	42.40	42.60	42.80
Short Circuit Current Isc(A)	12.92	12.96	13.00	13.04	13.09	13.13

*NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

TEMPERATURE RATINGS

WORKING CONDITIONS

NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	(-0.28±0.028)%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.23%/°C	Maximum series fuse	25 A
Temperature coefficient of Isc	0.045%/°C	Front Side Maximum Static Loading	Up to 5400 Pa
		Rear Side Maximum Static Loading	Up to 2400 Pa

*Remark: 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.

*Caution: Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

PACKAGING CONFIGURATION *

Piece/Box	36
Piece/Container(40'HQ)	720

*Customized packaging is available upon request.