



# **ZXMR-UPLD120 Series**

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

22.6%

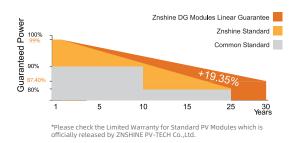
POWER RANGE MAXIMUM EFFICIENCY

560-585W

**0.40%** NCY YEARLY DEGRADATION

12 12 YEARS PRODUCT WARRANTY

**30** 30 YEARS OUTPUT GUARANTEE



# **KEY FEATURES**-



#### **Ultra Low Carbon**

 $CO_2$  emissions only 10% of the AL frame.



### **High Insulation**

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



#### **High Anti PID**

PU composite frame, Super Anti-PID performance.



# High Anti-Glare

PU composite frame, Super Anti-Glare performance.



#### **Better Weak Illumination Response**

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



#### **Corrosion Resistant**

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



# TIER 1

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



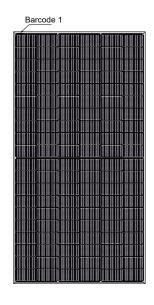
# Natural Black Vision

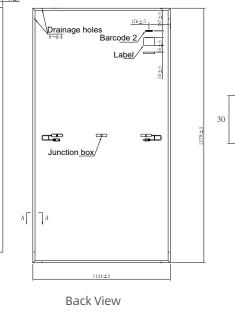
Solar modules with a PU composite frame have a more uniform appearance and superior aesthetics.

Founded in 2006, ZNShine solar is a world's leading high-tech PV module manufacturer. With the advanced production lines, the company boasts module capacity of 10GW. 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.



#### **DIMENSIONS OF PV MODULE(mm)**

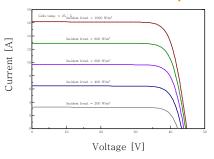




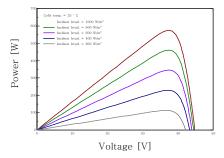
Front View

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

#### I-V CURVES OF PV MODULE(575W)



#### P-V CURVES OF PV MODULE(575W)



#### **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

\*Measuring uncertainity: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

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

\*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5

Cells orientation 120 (6×20) Module dimension 2278×1134×30 mm (With Frame)

A-A 12:1

Juule unnension	
eight	32.0±1.0 kg
955	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
nction box	IP 68, 3 diodes
bles	4 mm <sup>2</sup> ,350 mm (With Connectors)
nnectors*	MC4-EVO2 compatible

\*Caution:Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills

**WORKING CONDITIONS** 

(-0.28±0.028)%/℃ Operating temperature

Maximum system voltage

Maximum series fuse

Front Side Maximum Static Loading

Rear Side Maximum Static Loading

1500 V DC

-40°C~+85°C

Up to 5400 Pa

Up to 2400 Pa

25 A

N-type Monocrystalline, Rectangular cells

\*Please refer to regional datasheet for specified connecto **TEMPERATURE RATINGS** 

They only serve for comparison among different module types.

and please carefully read the safety and installation instructions before using our PV modules

Maximum Power Pmax(Wp)	425.70	429.30	433.20	436.80	440.60	444.30	NMOT	44℃ ±2℃	Maximum syste
Maximum Power Voltage Vmp(V)	34.70	34.90	35.10	35.30	35.40	35.60	Temperature coefficient of Pmax	(-0.28±0.028)%/°C	Operating tem
Maximum Power Current Imp(A)	12.27	12.31	12.35	12.39	12.43	12.47	Temperature coefficient of Voc	-0.23%/°C	Maximum serie
Open Circuit Voltage Voc(V)	41.90	42.10	42.20	42.40	42.60	42.80	Temperature coefficient of Isc	0.045%/℃	Front Side Maximu
Short Circuit Current Isc(A)	12.92	12.96	13.00	13.04	13.09	13.13	*Remark: Do not connect Fuse in Combiner Box with two	o or more strings in parall	Rear Side Maximur
*NMOT:Irradiance 800W/m²,Ambient Temperature 20°C,AM 1.5,Wind Speed 1m/s					*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.				

					+
D	ACVA		CONI		ATION "
-		<b>OUND</b>	CON	<b>FIGUR</b>	

**ELECTRICAL CHARACTERISTICS** | NMOT

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

\*Customized packaging is available upon request

🖗 No. 229 Tongda Avenue Suqian Economic and Technological Development Zone 223800 Suqian City, Jiangsu, P.R. China 💪 Tel: +86 519 6822 0233 🖂 E-mail: info@znshinesolar.com Note: Specifications included in this datasheet are subject to change without notice.ZNSHINE reserves the right of final interpretation © ZNSHINE SOLAR 2024 | Version: ZXMR-UPLD120 2411.E No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document

#### **MECHANICAL DATA**

Solar cells

We

Gla

Jun

Cat

Cor