



ZXMR-UOLD144 Series

16BB HALF-CELL N-Type TOPCon Double Glass Monocrystalline PU Composite Framed PV Module

570-605W

23.4%

0.40%

POWER RANGE

MAXIMUM EFFICIENCY

YEARLY DEGRADATION



12 YEARS PRODUCT WARRANTY



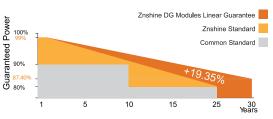
Better Weak Illumination Response

More power output in weak light condition, such as haze,

Excellent humidity and heat resistance, anti-salt spray

corrosion, suitable for offshore PV stations and other

30 YEARS OUTPUT GUARANTEE



*Please check the valid version of Limited Product Warranty which is officially released by ZNSHINE PV-TECH Co.,Ltd







IEC 61215/IEC 61730

ISO 14001: Environmental Managerment System

ISO 9001: Quality Managerment System

ISO45001: Occupational Health and Safety Managerment System

*As there are different certification requirements in different markets, please contact your local znshine sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

cloudy, and early morning.

Corrosion Resistant

highly corrosive fields.

KEY FEATURES



Ultra Low Carbon

CO₂ 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.



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

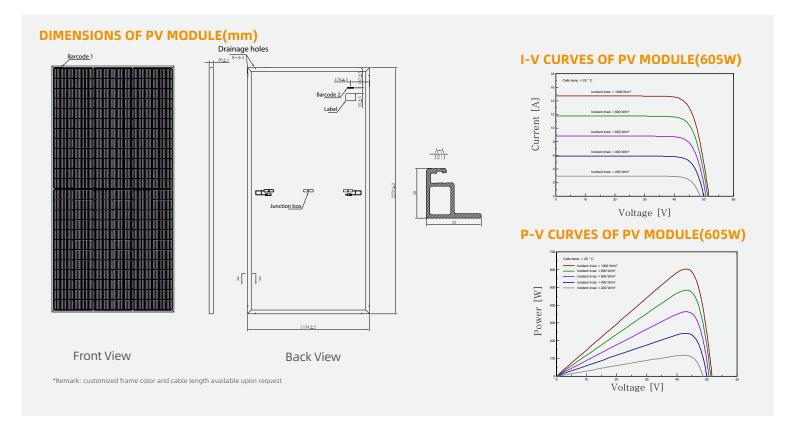
Solar modules with a PU composite frame have a more uniform appearance and superior aesthetics.



Graphene Coating

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





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					6.04		

MECHANICAL DATA

Nominal Power Watt Pmax(W)*	570	575	580	585	590	595	600	605	Solar cells	N-type Monocrystalline
Maximum Power Voltage Vmp(V)	41.70	41.90	42.10	42.30	42.50	42.70	42.90	43.10	Cells orientation	144 (6×24)
Maximum Power Current Imp(A)	13.67	13.73	13.78	13.83	13.89	13.94	13.99	14.04	Module dimension	2278×1134×30mm (With Frame)
Open Circuit Voltage Voc(V)	50.30	50.50	50.70	50.90	51.10	51.30	51.50	51.70	Weight	32.0±1.0 kg
Short Circuit Current Isc(A)	14.39	14.45	14.50	14.55	14.61	14.66	14.71	14.76	Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Module Efficiency (%)	22.1	22.3	22.5	22.7	22.8	23.0	23.2	23.4	Junction box	IP 68, 3 diodes
*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								Cables	4 mm² ,350mm (With Connectors)	

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

Please refer to regional datasneet for specified conflector	WORKING CONDITIONS
TEMPERATURE RATINGS	WORKING CONDITIONS

MC4-EVO2 compatible

Maximum Power Pmax(Wp)	433.30 43	37.20 440.	80 444.40	448.40	452.00	455.70	459.30	NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Maximum Power Voltage Vmp(V)	39.30 39	9.50 39.7	70 39.90	40.10	40.30	40.50	40.60	Temperature coefficient of Pmax	(-0.28±0.028)%/℃	Operating temperature	-40°C~+85°C
Maximum Power Current Imp(A)	11.02 1	1.06 11.	10 11.14	11.19	11.23	11.26	11.30	Temperature coefficient of Voc	-0.23%/℃	Maximum series fuse	25 A
Open Circuit Voltage Voc(V)	47.70 4	7.90 48.	10 48.20	48.40	48.60	48.80	49.00	Temperature coefficient of Isc	0.045%/℃	Front Side Maximum Static Loading	Up to 5400 Pa
Short Circuit Current Isc(A)	11.61 1	1.66 11.7	70 11.74	11.79	11.83	11.87	11.91	*Domark: Do not connect Fuse in Combiner Poy with the	NAC or more strings in par	Rear Side Maximum Static Loading	Up to 2400 Pa

Connectors*

PACKAGING CONFIGURATION *

ELECTRICAL CHARACTERISTICS | NMOT

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

^{*}Customized packaging is available upon request

^{*}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.

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