



ZXM7-UHLD144 Series

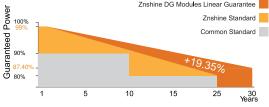
Znshinesolar 16BB HALF-CELL N-Type TOPCon Double Glass Monocrystalline PV Module

21.67%

MAXIMUM EFFICIENCY

30

12 years product warranty for general application 15 years product warranty for Rooftop PV system 30 years output warranty / 0.40% Annual Degradation over 30 years Znshine DG Modules Linear Guarantee



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



IEC 61215/IEC 61730

545-560W POWER RANGE

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System

12 YEARS PRODUCT WARRANTY

*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.

KEY FEATURES



Excellent Cells Efficiency

SMBB technology reduce the distance between busbars 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.



TIER 1

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



Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.

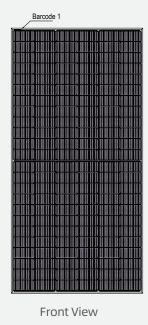
0.40%

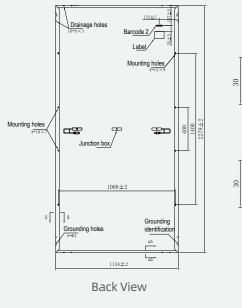
YEARLY DEGRADATION

30 YEARS OUTPUT GUARANTEE

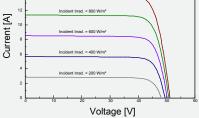


DIMENSIONS OF PV MODULE(mm)



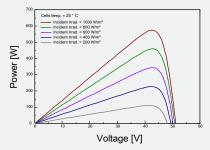


Cells temp. = 25 ° C Incident Irrad. = 1000 W/m



I-V CURVES OF PV MODULE(575W)

P-V CURVES OF PV MODULE(575W)



2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass

PV-XT101.1 Suzhou Xtong Photovoltaic Technologies Co., Ltd.

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

ELECTRICAL CHARACTERISTICS | STC*

Module Type	ZXM7 UHLD144-545/N	ZXM7 UHLD144-550/N	ZXM7 UHLD144-555/N	ZXM7 UHLD144-560/N						
Nominal Power Watt Pmax(W)*	545±5	550±5	555±5	560±5						
Maximum Power Voltage Vmp(V)	41.40	41.60	41.80	42.00						
Maximum Power Current Imp(A)	13.17	13.23	13.28	13.34						
Open Circuit Voltage Voc(V)	50.00	50.20	50.40	50.60						
Short Circuit Current Isc(A)	13.88	13.94	14.00	14.06						
Module Efficiency (%)	21.09	21.28	21.48	21.67						

*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

*Measuring uncertainity: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.					, , , , , , , , , , , , , , , , , , ,	·····;			
					PV Modules manufactured in china *Please refer to regional datasheet for specified connector TEMPERATURE RATINGS WORKING CONDITIONS				
ELECTRICAL CHARACTERISTICS NMOT				TEMPERATURE RATINGS W		URKING CONDITIONS			
Maximum Power Pmax(Wp)	411.60	415.40	418.90	422.80	NMOT		44℃ ±2℃	Maximum system voltage	1500 V DC
Maximum Power Voltage Vmp(V)	39.00	39.20	39.40	39.60	Temperature coefficie	ent of Pmax	(-0.30±0.03)%/°C	Operating temperature	-40°C~+85°C
Maximum Power Current Imp(A)	10.55	10.59	10.64	10.68	Temperature coefficie	ent of Voc	-0.25%/°C	Maximum series fuse	25 A
Open Circuit Voltage Voc(V)	47.20	47.40	47.60	47.70	Temperature coefficie	ent of Isc	0.046%/°C	Maximum load front/back	3600/1600
	11.20	11.25	11.30	11.35					with safety factor 1.
Short Circuit Current Isc(A)	11.20	11.25	11.50	11.55				Fire safety class	Class A
*NMOT:Irradiance 800W/m ² ,Ambient Tempera	ature 20°C.AM 1.5.	Wind Speed 1m/s			*Remark:Do not connect Fuse in	Combiner Box with t	wo or more strings in para	Illel connection	
			*Remark:Electrical data in this catalog do not refer to a single module and they are not part of the offer.						
PACKAGING CONFIGURATION *			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						
Piece/Box	36				and please carefully read the sa	afety and installation	instructions before using	our PV modules.	

	50
Piece/Container(40'HQ)	720
*Customized packaging is available upon request.	

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Note: Specifications included in this datasheet are subject to change without notice.ZNSHINE reserves the right of final interpretation © ZNSHINE SOLAR 2023 | Version: ZXM7-UHLD144 2307.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

N-type Monocrystalline

2279×1134×30 mm (With Frame)

PV-XT1609Nxyz, IP 68, 3 diodes

H1Z2Z2-K 1×4,0mm²

144 (6×24)

31.5±1.0 kg

Solar cells

Weight

Glass

Cables

Junction box

Connectors*

Cells orientation

Module dimension