

ZXM7-UHLDD144 Series

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

555-585W

22.65%

0.40%

POWER RANGE

MAXIMUM EFFICIENCY

YEARLY DEGRADATION



12 YEARS PRODUCT WARRANTY



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/IEC 61701/IEC 62716/UL6 1730

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.

-Key Features



Excellent Cells Efficiency

SMBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



Anti PID

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



TIER 1

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



Bifacial Technology

Up to 25% additional power gain from back side depending on albedo.



Better Weak Illumination Response

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



Adapt To Harsh Outdoor Environment

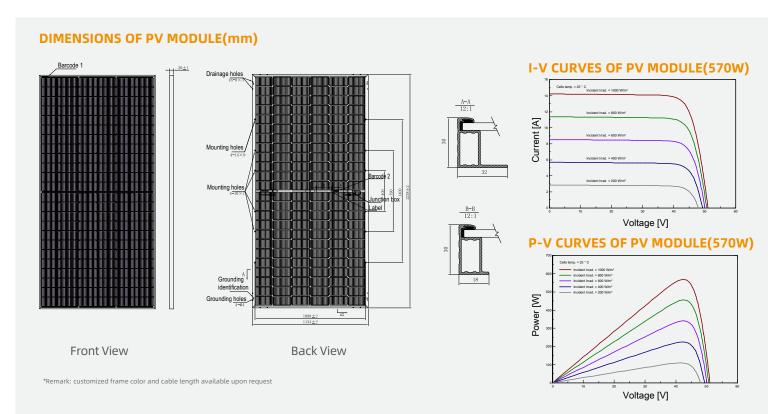
Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



Excellent Quality Managerment System

Warranted reliability and stringent quality assurances well beyond certified requirements.





ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	555	560	565	570	575	580	585
Maximum Power Voltage Vmp(V)	41.80	42.00	42.20	42.40	42.60	42.80	43.00
Maximum Power Current Imp(A)	13.28	13.34	13.39	13.45	13.50	13.56	13.61
Open Circuit Voltage Voc(V)	50.50	50.70	50.90	51.10	51.30	51.50	51.70
Short Circuit Current Isc(A)	14.05	14.11	14.17	14.23	14.29	14.35	14.41
Module Efficiency (%)	21.48	21.68	21.87	22.07	22.26	22.45	22.65

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

MECHANICAL DATA

Solar cells	N-type Monocrystalline
Cells orientation	144 (6×24)
Module dimension	2278×1134×30 mm (With Frame)
Weight	31.5±1.0 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm ² ,400 mm or Customized
Connectors*	MC4-EVO2

^{*}Please refer to regional datasheet for specified connector

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	419.00	422.80	426.40	430.30	433.90	437.80	441.40
Maximum Power Voltage Vmp(V)	39.30	39.50	39.70	39.90	40.00	40.20	40.40
Maximum Power Current Imp(A)	10.65	10.70	10.74	10.79	10.83	10.88	10.93
Open Circuit Voltage Voc(V)	47.70	47.80	48.00	48.20	48.40	48.60	48.80
Short Circuit Current Isc(A)	11.34	11.39	11.44	11.48	11.53	11.58	11.63

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

TEMPERATURE RATINGS

44°C ±2°C	Maximum system voltage	1500 V DC
(-0.30±0.03)%/°C	Operating temperature	-40°C~+85°C
-0.25%/℃	Maximum series fuse	30 A

WORKING CONDITIONS

Temperature coefficient of Voc	-0.25%/℃	Maximum series fuse	30 A
Temperature coefficient of Isc	0.046%/℃	Front Side Maximum Static Loading	Up to 5400Pa
Bufu Bifu tal Factor			

^{*}Remark: Do not connect Fuse in Combiner Box with two or more strings in parallel connection

ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN*

Front power Pmax/W	555	560	565	570	575	580	585
Total power Pmax/W	694	700	706	713	719	725	731
Vmp/V(Total)	41.90	42.10	42.30	42.50	42.70	42.90	43.10
Imp/A(Total)	16.56	16.63	16.70	16.76	16.83	16.90	16.97
Voc/V(Total)	50.60	50.80	51.00	51.20	51.40	51.60	51.80
Isc/A(Total)	17.52	17.59	17.67	17.74	17.82	17.88	17.96

PACKAGING CONFIGURATION*

Temperature coefficient of Pmax (-0.30±

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

^{*}Customized packaging is available upon reguest

^{*}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.

^{*}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

Add : 1#, Zhixi Industrial Zone, JintanJiangsu 213251, P.R. China