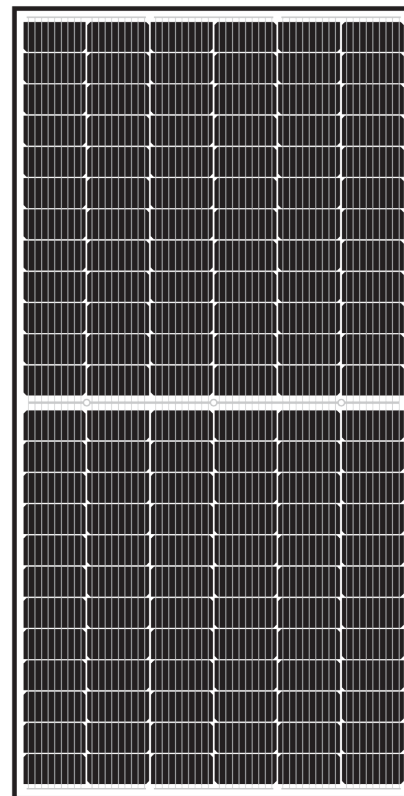


445W Bifacial Panel

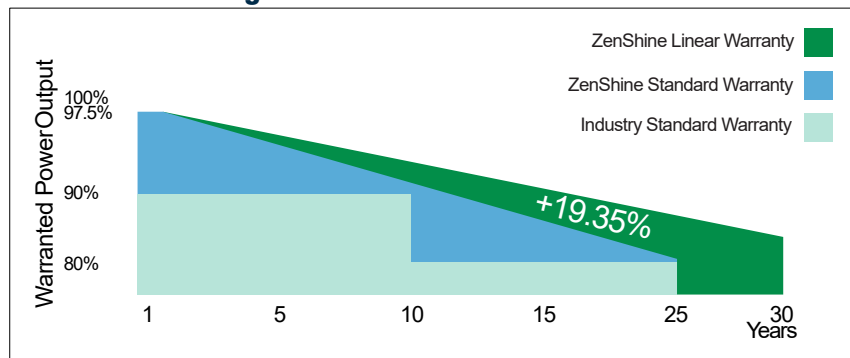
UP TO **25%**
MORE POWER

FASTER
SNOW SHEDDING

40mm
BLACK FRAMES



12 Year Product Warranty/ 30 Year Output Warranty
0.5% Annual Degradation over 30 Years



Features

- 40mm Black frames - attractive and effective at snow shedding in northern climates
- Operating Temperature range -40°C to 85°C / -40°F to 185°F
- Max snow load 5400 Pa / wind load 2400 Pa
- Use for any installation type - particularly suited to ground mounted arrays.



Bifacial Technology

Additional energy harvesting from the back of the panel. (up to 25%)



Anti PID

Power degradation of NE-ZXM6-NHLDD144-445M module caused by PID effect is guaranteed to be limited under strict testing conditions for mass production.



More Power

Module RS decreases, FF (fill factor) increases, power gain is stable above 1.5%, and can be increased by 5-10W.



Works Better in Low Light

Lower temperature coefficient and wide spectral response produce a higher power output, even under low-light conditions.



High Efficiency

A high efficiency PERC solar cell with 9 busbars technology ensures this solar module is up to 20.7% more efficient with stable operation.



Tier-1 Bankable Modules

This product is listed on the Bloomberg New Energy Finance PV Module Tiering System Report.



Electrical Properties | STC*

Module Type	ZXM6-NHLDD144 -425/M	ZXM6-NHLDD144 -430/M	ZXM6-NHLDD144 -435/M	ZXM6-NHLDD144 -440/M	ZXM6-NHLDD144 -445/M	ZXM6-NHLDD144 -450/M
Nominal Power Watt Pmax (W)	425	430	435	440	445	450
Power Output Tolerance Pmax (%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp (V)	41.1	41.3	41.5	41.7	41.9	42.1
Maximum Power Current Imp (A)	10.35	10.42	10.49	10.56	10.63	10.70
Open Circuit Voltage Voc (V)	49.5	49.7	49.9	50.1	50.3	50.5
Short Circuit Current Isc (A)	11.00	11.07	11.14	11.21	11.28	11.35
Module Efficiency (%)	19.55	19.78	20.01	20.24	20.47	20.70

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

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

Electrical Properties | NOCT/NMOT*

Maximum Power Pmax (Wp)	316.7	320.3	323.9	327.6	330.6	334.3
Maximum Power Voltage Vmpp (V)	38.0	38.2	38.4	38.5	38.7	38.9
Maximum Power Current Imp (A)	8.34	8.39	8.44	8.50	8.53	8.58
Open Circuit Voltage Voc (V)	46.1	46.3	46.5	46.6	46.8	47.0
Short Circuit Current Isc (A)	8.88	8.94	8.99	9.05	9.11	9.17

*NMOT(Nominal module operating temperature):Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*The data above is for reference only and the actual data is in accordance with the practical testing.

Electrical characteristics with 25% rear side power gain

Front power Pmax/W	425	430	435	440	445	450
Total power Pmax/W	531	538	544	550	556	562
Vmp/V (Total)	41.2	41.4	41.6	41.8	42.0	42.2
Imp/A (Total)	12.89	13.00	13.08	13.16	13.24	13.32
Voc/V (Total)	49.6	49.8	50.0	50.2	50.4	50.6
Isc/A (Total)	13.54	13.65	13.73	13.81	13.89	13.97

Temperature Ratings

NMOT	44°C ±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.05%/°C
Refer. Bifacial Factor	70±5%

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection

Working Conditions

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C / -40°F~+185°F
Maximum series fuse	20 A
Maximum load (snow/wind)	5400 Pa / 2400 Pa

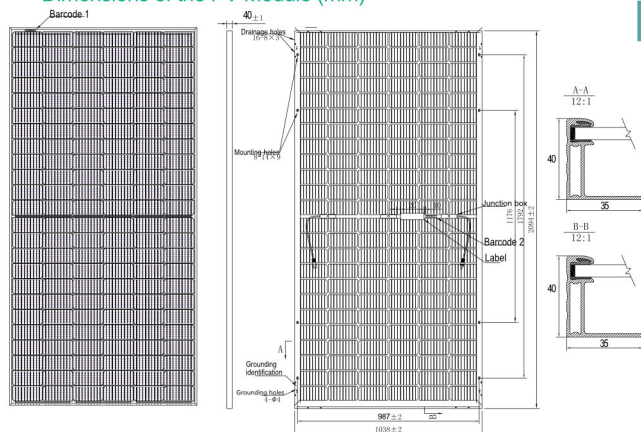
Mechanical Data

Solar cells	Mono 166×83mm
No. of Cells	144 (6 × 24)
Module dimension	2094×1038×40mm / 82.44×40.87×1.57" (W/ Frame)
Weight	28.2 kg / 62.17 lbs
Glass	2.0mm + 2.0mm heat strengthened glass
Junction box	IP 68 , 3 diodes
Cables	4mm ² , 350mm / 13.78"
Connectors	MC4-compatible

Packaging Information

Packing Type	40' HQ
Pieces/Box	27
Pieces/Container	638

Dimensions of the PV Module (mm)



I-V Curves of the PV Module

