

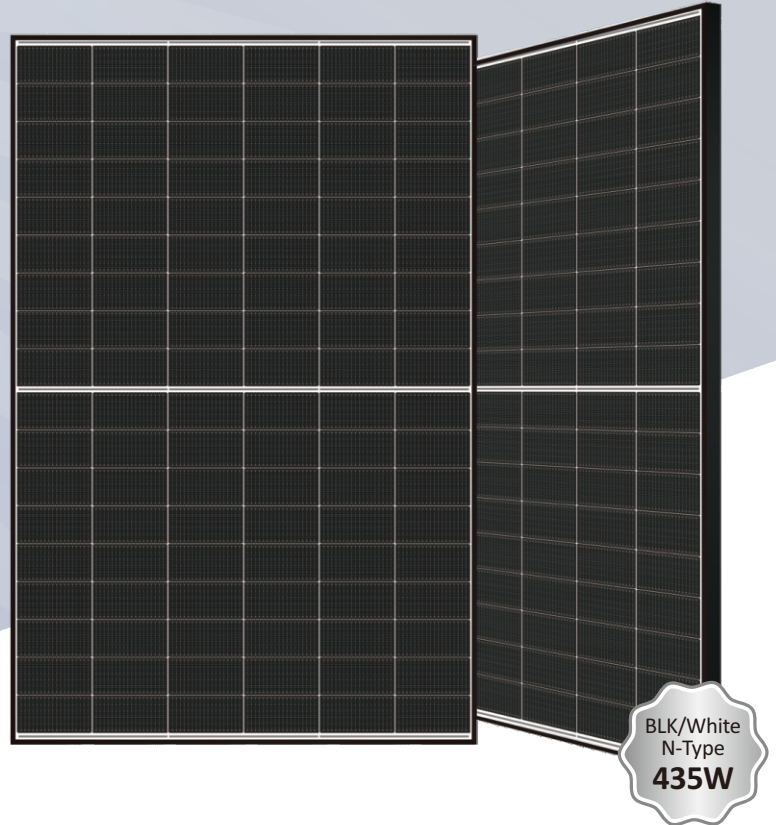


PERLIGHT SOLAR
Powering Possibilities

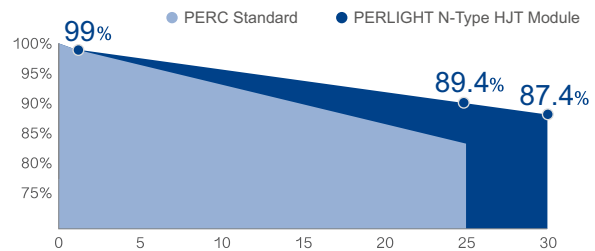
PLM-435DH8N-108 BLK/WHITE SERIES

Double Glass with Light Weight

N-Type HJT Half-Cell Module
Power range 430W-450W



Insurance



23.04%

MAX MODULE EFFICIENCY
AFTER INSTALLED

15

YEARS LIMITED
PRODUCT WARRANTY

30

YEARS PERFORMANCE
WARRANTY



N-type HJT 3.0

Combining gettering process and double-sided μ -Si to maximize cell efficiency and module power.



-0.26%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate. 3.9% MORE electricity than PERC panels in a hot climate.



Small Chamfer Design

Bigger power generation area on the solar cell, increasing 1% cell power of single piece.



SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.



N-type wafer does not have B-O bond, resulting in no LID effect, which fundamentally guarantee the products' durability and yield. TCO film on HJT cell is conductive, so the charge will not polarize on the surface, which can prevent the potential -induced attenuation, avoiding PID from the structure.



Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent module lifespan.



Higher reliability

Industrial leading product and performance warranty, ensuring modules' consistent outstanding performance.

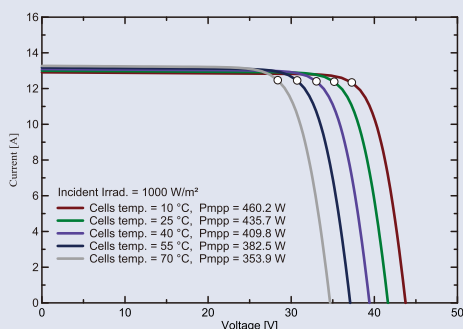
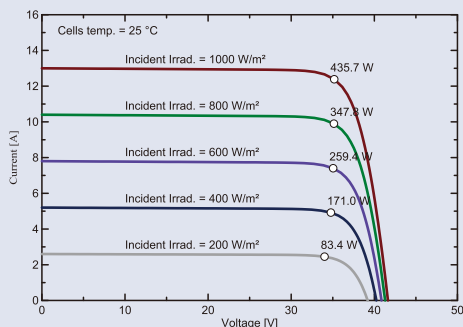
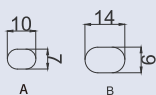
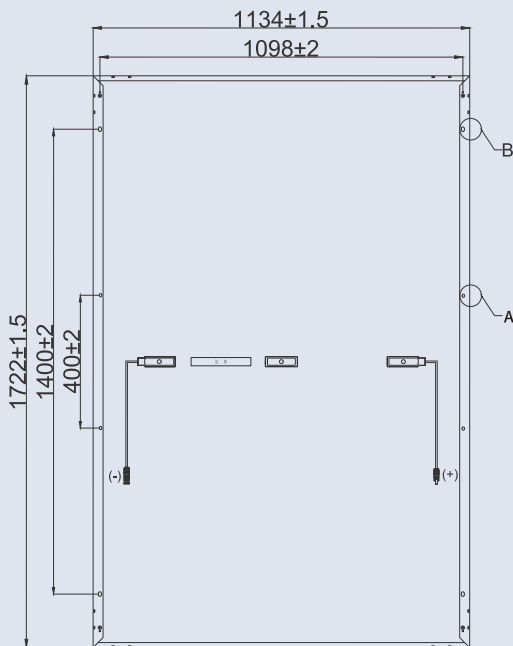


Ideal choice for residential rooftop

Stronger low-light effect, which contributes about 0.5~1% more energy generation per watt than PERC panels.



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Perlight Partners

Electrical Properties (STC*)

Power Output (Wp)	430	435	440	445	450
Voltage Mpp-Vmpp (V)	34.60	34.86	35.12	35.38	35.63
Current Mpp-Impp (A)	12.43	12.48	12.53	12.58	12.63
Voltage Open Circuit-Voc (V)	41.37	41.64	41.91	42.18	42.44
Short Circuit Current-Isc (A)	12.95	13.00	13.05	13.10	13.15
Module Efficiency (%)	22.02	22.28	22.53	22.79	23.04

*STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

Electrical Properties (NOCT*)

Power Output (Wp)	327	331	335	338	342
Voltage Mpp-Vmpp (V)	32.64	32.91	33.17	33.34	33.60
Current Mpp-Impp (A)	10.02	10.06	10.10	10.14	10.18
Voltage Open Circuit-Voc (V)	39.48	39.74	40.00	40.26	40.50
Short Circuit Current-Isc (A)	10.44	10.48	10.52	10.56	10.60

*NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Properties

Cell Size	182mm×91.75mm
Number of Cells	108 (6×18)]
Module Dimension	1722×1134×30mm(L×W×H)
Weight	22Kg
Glass	Double glass, 1.6mm
Frame	Anodized Aluminium Alloy(Black Stronger Frame, 6005-T6)
Junction Box	IP 68
Output Cable	4mm ² , 1200mm in length, length can be customized / UV resistant
Connectors Type	Stäubli MC4 EVO2A

Packaging Configuration

Packing Type	40'HQ
Piece / Pallet	36
Piece / Container	936

Operating Properties

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	±3%

Temperature Coefficient

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C