



Lowest CO<sub>2</sub> Footprint  
Solar Panel

# BlackLux Clear

MW-SP435-8B108DFT-10

**N-Type HJT**  
**Clear Mesh Double Glass**

**435W**

Power

**22.28%**

Efficiency



PRODUCT  
WARRANTY



LINEAR POWER  
WARRANTY



Exceeds the requirements of hail  
resistance 4 (HW4) confirmed by TÜV Süd



## 2 X 2 mm Glass Front and Back

- Better hail resistance with 45 mm ice ball at 110 km/h  
vs IEC Standard: 25 mm ice ball at 83 km/h
- Higher snow load and wind load resistance with tested up to 6336 pa (Front) and 5530 pa (Rear)  
vs IEC Standard: 5400 pa (Front) and 2400 pa (Rear)



## HJT Technology

Combining gettering process and double-sided  $\mu$ -Si to maximize cell efficiency and module power.



## Butyl Edge Sealing

- Zero water ingress → zero corrosion
- Superb durability for a longer lifespan



## Up to 95% Bifaciality

vs PERC: 70%. vs TOPCon: 80%.

## Electrical Characteristics (STC\*)

Module Type	MW-SP435-8B108DFT-10
Maximum Power(Pmax)	435W
Module Efficiency	22.28%
Maximum Power Voltage(Vmp)	34.86V
Maximum Power Current(Imp)	12.48A
Open Circuit Voltage(Voc)	41.64V
Short Circuit Current(Isc)	13.00A
Operating Temperature	-40 °C to +85 °C
Maximum System Voltage	DC1500V(IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0 ~ +5W
Bifaciality	90% ± 5%

\*STC: Irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/- 3%.

## BSCT\*\*

Module Type:	MW-SP435-8B108DFT-10
Maximum Power(Pmax)	485W
Maximum Power Voltage(Vmp)	34.86V
Maximum Power Current(Imp)	13.92A
Open Circuit Voltage(Voc)	41.64V
Short Circuit Current(Isc)	14.49A

\*\*BSTC: Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, AM=1.5, ambient temperature 25 °C.

## Mechanical Characteristics

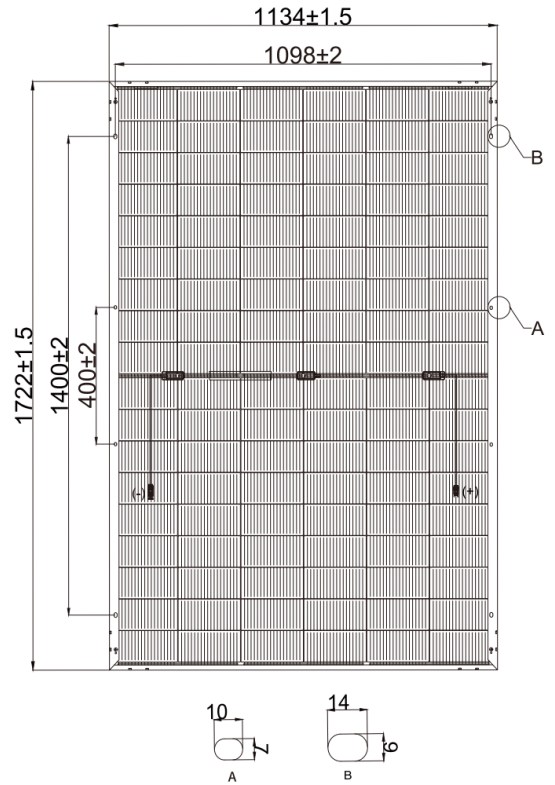
Cell Type	HJT Mono 182×91.75mm
Cell Connection	108 (6×18)
Module Dimension	1722×1134×30 mm
Weight	26 kg
Junction Box	IP68
Output Cable	4mm <sup>2</sup> , 1200mm in length, length can be customized / UV resistant
Connectors Type	MC4 original
Frame	Anodised aluminum alloy(Black)
Front Load	5400Pa
Rear Load	2400Pa
Glass Thickness	Double glass, 2.0mm

## Shipping Configurations

	HC
Container Size	40'
Pallets Per Container	26
Modules Per Pallet (pcs)	36
Modules Per Container (pcs)	936

## Engineering Drawings

Unit: mm



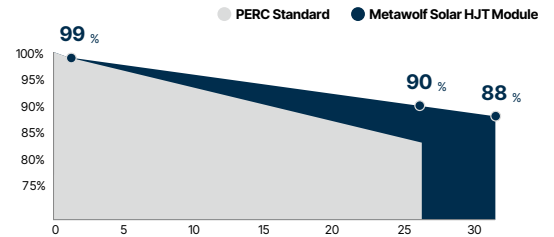
## Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C±2 °C
Temperature Coefficient of Pmax	-0.26%/ °C
Temperature Coefficient of Voc	-0.24%/ °C
Temperature Coefficient of Isc	0.04%/ °C

## Safety & Warranty

Safety Class	Class II
Product Warranty	30 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

\*Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.



\* The module recycling should be carried out by the professional institutions at the end of module life cycle  
 \* Copyright©2023 Specifications are subject to change without further notification