



Lowest CO₂ Footprint
Solar Panel

BlackLux

MW-SP430-8B108DFB-10

N-Type HJT
Full Black Double Glass

430W **22.02%**
Power Efficiency



PRODUCT
WARRANTY



LINEAR POWER
WARRANTY



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



2 X2 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)



HJT Technology

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



Butyl Edge Sealing

- Zero water ingress $\rightarrow$ zero corrosion
- Superb durability for a longer lifespan



Up to 90% Bifaciality

vs PERC: 70%.
vs TOPCon: 80%



Electrical Characteristics (STC*)

Module Type	MW-SP430-8B108DFB-10
Maximum Power(Pmax)	430W
Module Efficiency	22.02%
Maximum Power Voltage(Vmp)	34.60V
Maximum Power Current(Imp)	12.43A
Open Circuit Voltage(Voc)	41.37V
Short Circuit Current(Isc)	12.95A
Operating Temperature	-40°C to +85°C
Maximum System Voltage	DC1500V(IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0 ~ +5W
Bifaciality	85% ± 5%

*STC: Irradiance 1000 W/m², cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/- 3%.

BSCT**

Module Type:	MW-SP430-8B108DFB-10
Maximum Power(Pmax)	475W
Maximum Power Voltage(Vmp)	34.60V
Maximum Power Current(Imp)	13.73A
Open Circuit Voltage(Voc)	41.37V
Short Circuit Current(Isc)	14.31A

**BSC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C.

Mechanical Characteristics

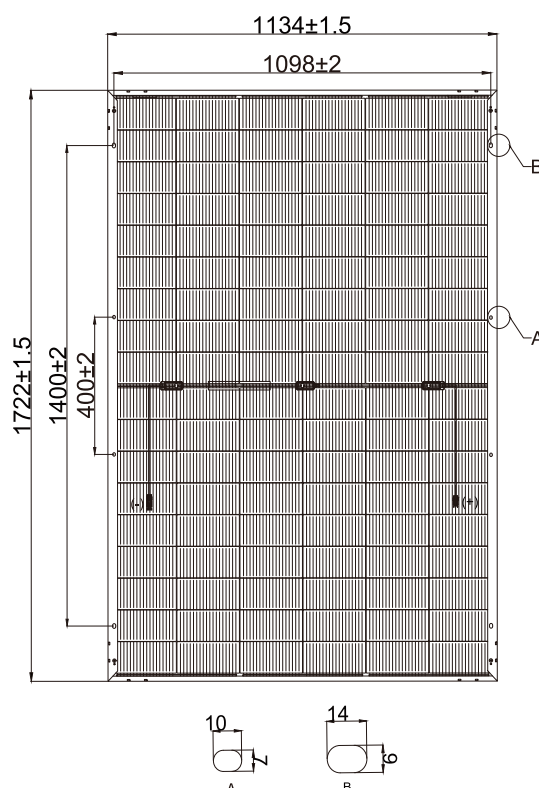
Cell Type	HJT Mono 182×91.75mm
Cell Connection	108 (6×18)
Module Dimension	1722×1134×30 mm
Weight	26 kg
Junction Box	IP68
Output Cable	4mm ² , 1200mm in length, length can be customized / UV resistant
Connectors Type	MC4 original
Frame	Anodised aluminum alloy(Black)
Front Load	5400Pa
Rear Load	2400Pa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



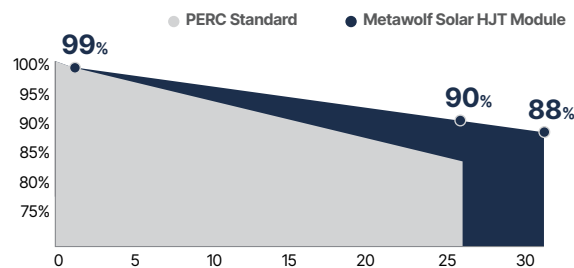
Temperature Characteristics

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 (For Rooftop Installation)*
Performance Warranty	30 yrs Linear Warranty*

*Our warranty terms and conditions apply.



*Refer to Metawolf Solar standard warranty for details.