

BlackLux

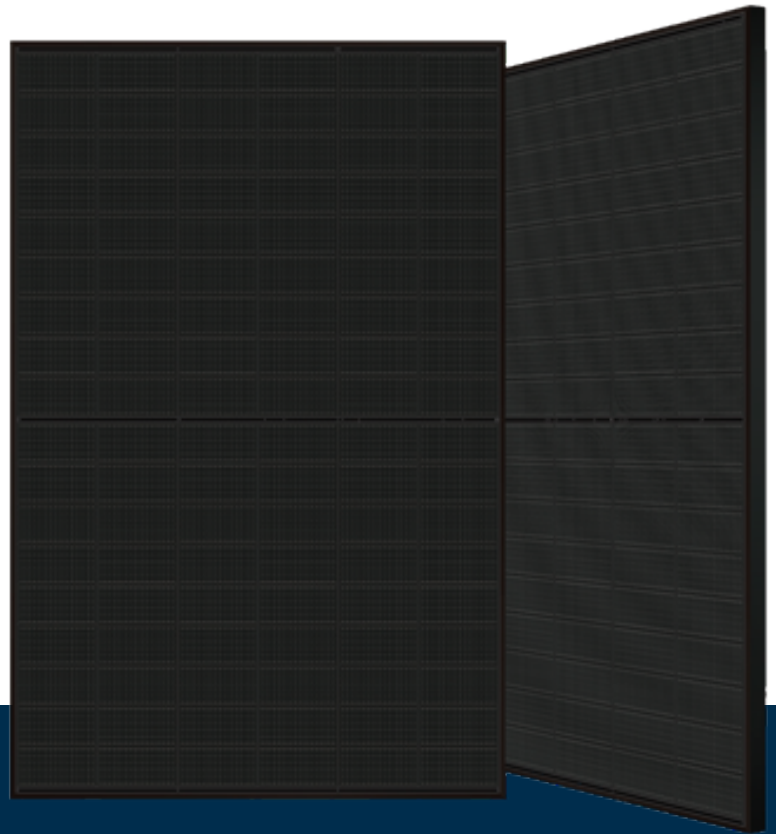
MW-SP430-8B108DFB-10

430W

Double Glass HJT PV Module

30
Yrs
**PRODUCT
WARRANTY**

30
Yrs
**LINEAR POWER
WARRANTY**



Features of the Module



HJT Technology

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



Up to 90%

Bifaciality

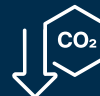
vs PERC: 70%.
vs TOPCon: 80%.



-0.26%/°C

Pmax Temperature Coefficient

vs PERC: -0.34% / °C.
vs TOPCon: -0.31% / °C.



~40%

Lower Carbon Footprint

Thinner cell using less silicon; Manufactured under lower temperature, with fewer cell production processes.



22.02%

Module Efficiency

5%~10% higher than PERC and TOPCon.

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

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

Mechanical Characteristics

Cell Type	HJT Mono 182x91.75mm
Cell Connection	108 (6x18)
Module Dimension	1722x1134x30 mm
Weight	26 kg / 22 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 / 1.6mm

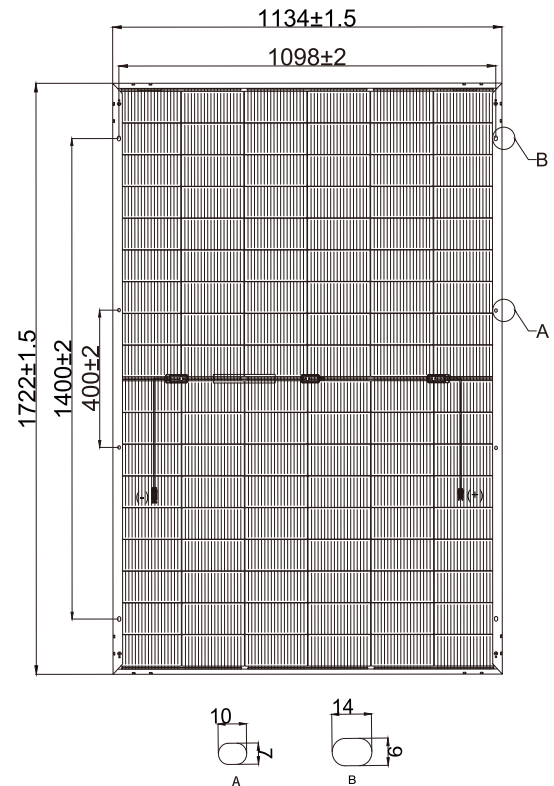
Shipping Configurations

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

* 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

Engineering Drawings

Unit: mm



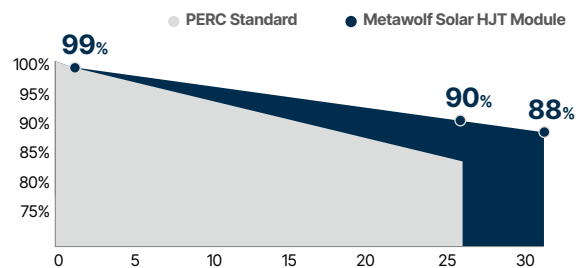
Temperature Characteristics

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.