

# BlackLux

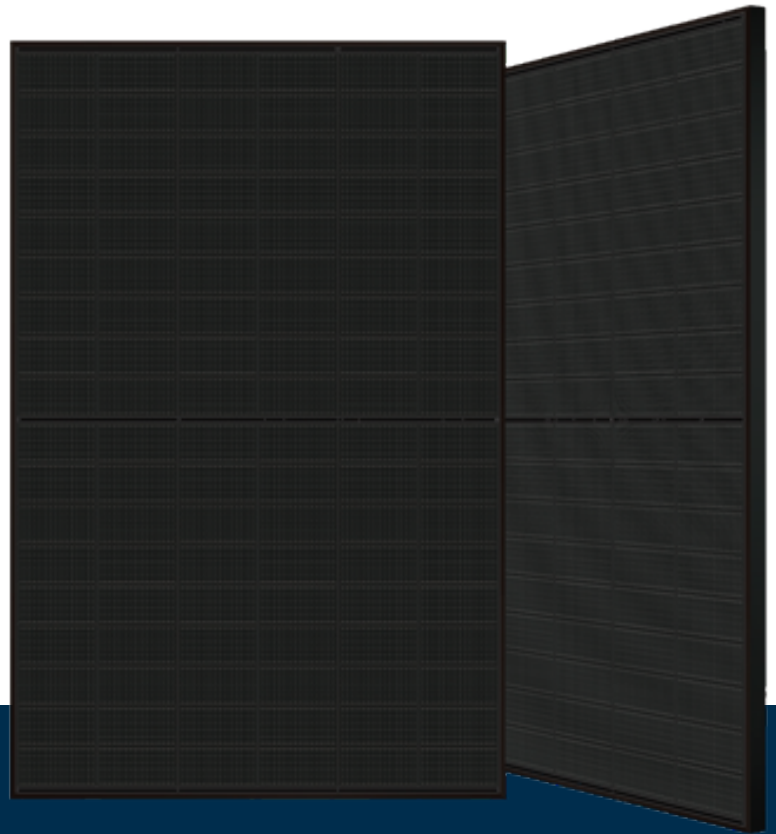
MW-SP430-8B108DFB-10

## 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/m<sup>2</sup>, 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/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 182x91.75mm
Cell Connection	108 (6x18)
Module Dimension	1722x1134x30 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

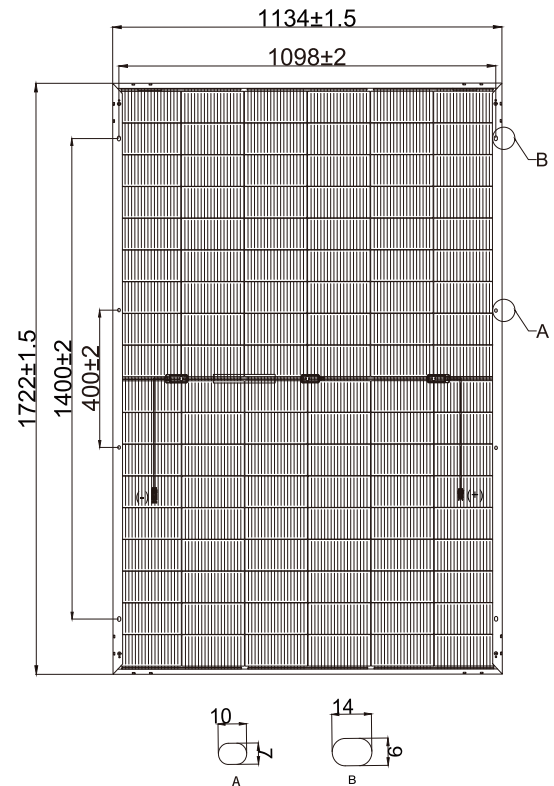
### Shipping Configurations

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

\* 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



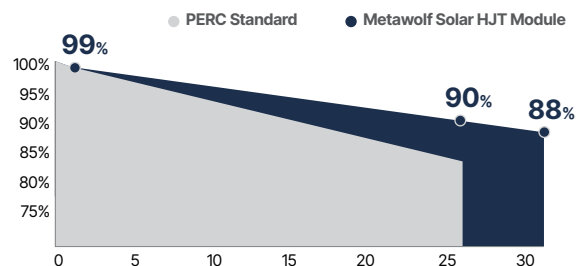
### Temperature Characteristics

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.