

# BlueUltra

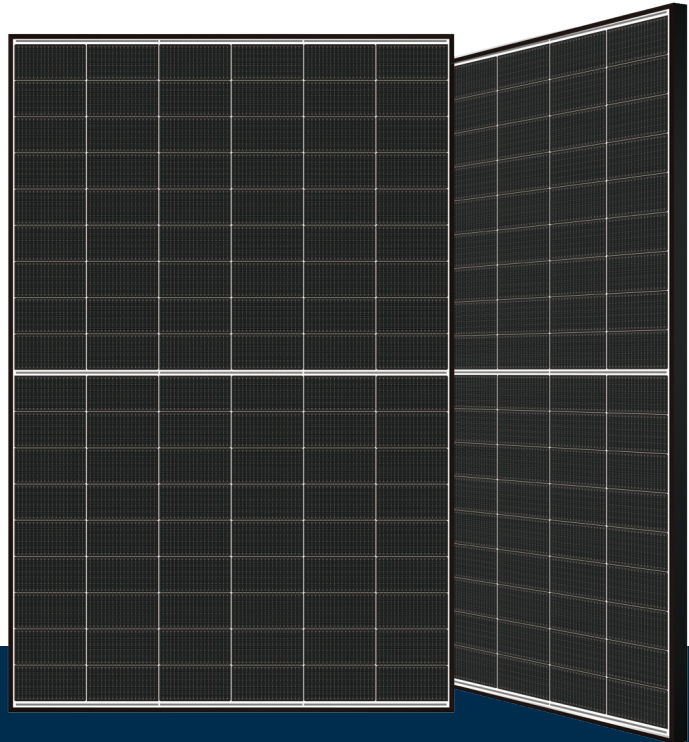
MW-SP440-8B108DF-10

## 440W

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.



#### 22.53%

#### Module Efficiency

5%~10% higher than PERC and TOPCon.

## Electrical Characteristics (STC\*)

Module Type	MW-SP440-8B108DF-10
Maximum Power(Pmax)	440W
Module Efficiency	22.53%
Maximum Power Voltage(Vmp)	34.01V
Maximum Power Current(Imp)	12.94A
Open Circuit Voltage(Voc)	40.83V
Short Circuit Current(Isc)	13.40A
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-SP440-8B108DF-10
Maximum Power(Pmax)	485W
Maximum Power Voltage(Vmp)	34.01V
Maximum Power Current(Imp)	14.27A
Open Circuit Voltage(Voc)	40.83V
Short Circuit Current(Isc)	14.77A

\*\*BSCT: 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 / 22 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 / 1.6mm

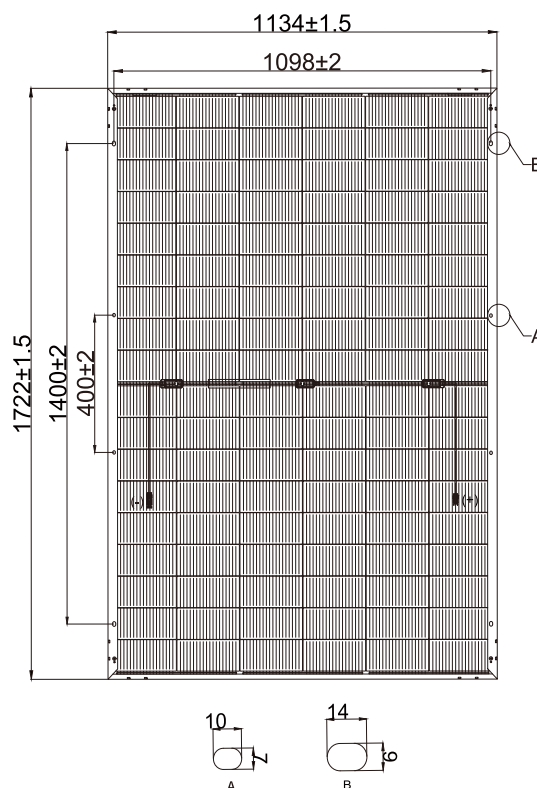
## Shipping Configurations

	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



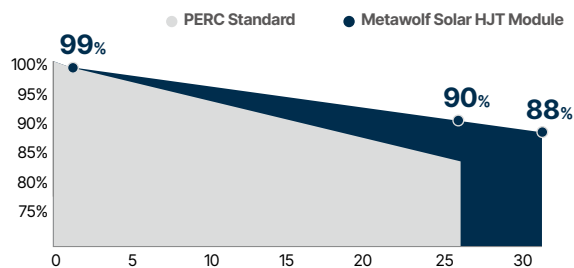
## Temperature Characteristics

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.