



BlueUltra

MW-SP440-8B108DF-10

Lowest CO₂ Footprint
Solar Panel

N-Type HJT
White Mesh Double Glass

440W **22.53%**
Power 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 μ c-Si to maximize cell efficiency and module power.



Butyl Edge Sealing

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



Up to 90% Bifaciality

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



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/m², 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/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C.

Mechanical Characteristics

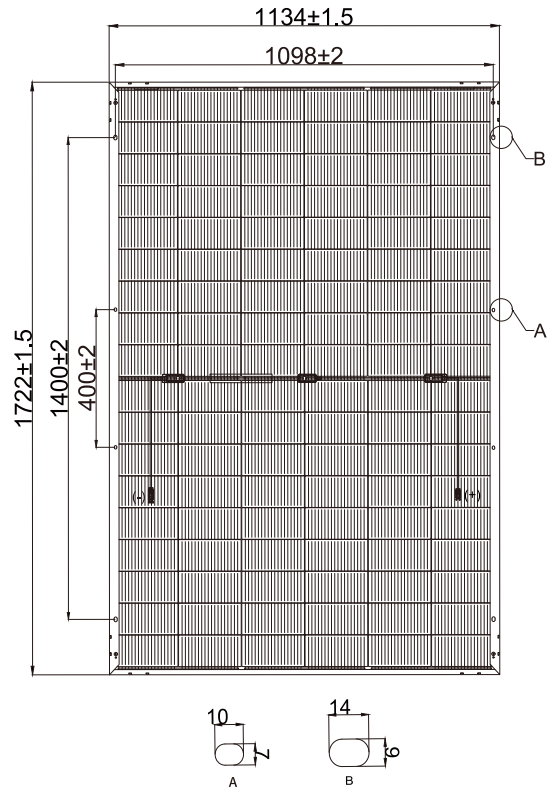
Cell Type	HJT Mono 182×91.75mm
Cell Connection	108 (6×18)
Module Dimension	1722×1134×30 mm
Weight	26 kg
Junction Box	IP68
Output Cable	4mm ² , 1200mm in length, length can be customized / UV resistant
Connectors Type	MC4 original
Frame	Anodised aluminum alloy(Black)
Front Load	5400Pa
Rear Load	2400Pa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



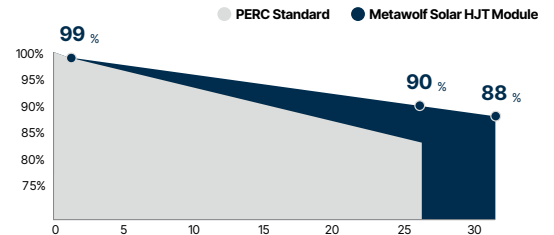
Temperature Characteristics

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
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