

EM-N66MB 480-500

**BIFACIAL MODULE WITH
DUALGLASS**
N-TYPE

POSITIVE POWER TOLERANCE

IEC61215(2021), IEC61730(2023)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety management systems

KEY FEATURES



SMBB technology

Better current collection to improve module power output and reliability.



Bifacial power generation

Power generation can reach up to 25% maximum, significantly improving power generation gain and reducing LCOE.



Anti-PID technology

Excellent Anti-PID performance via highly reliable cell and material technology



Low attenuation technology

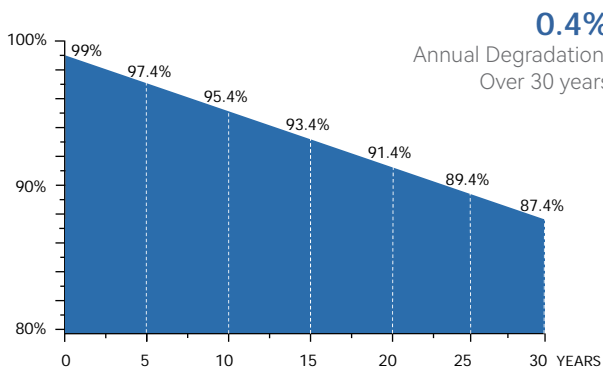
Lower LID / LETID attenuation with high reliable N-type module



Excellent temperature coefficient

Ensure high power generation in low temperature areas.

LINEAR PERFORMANCE WARRANTY



15
YEARS

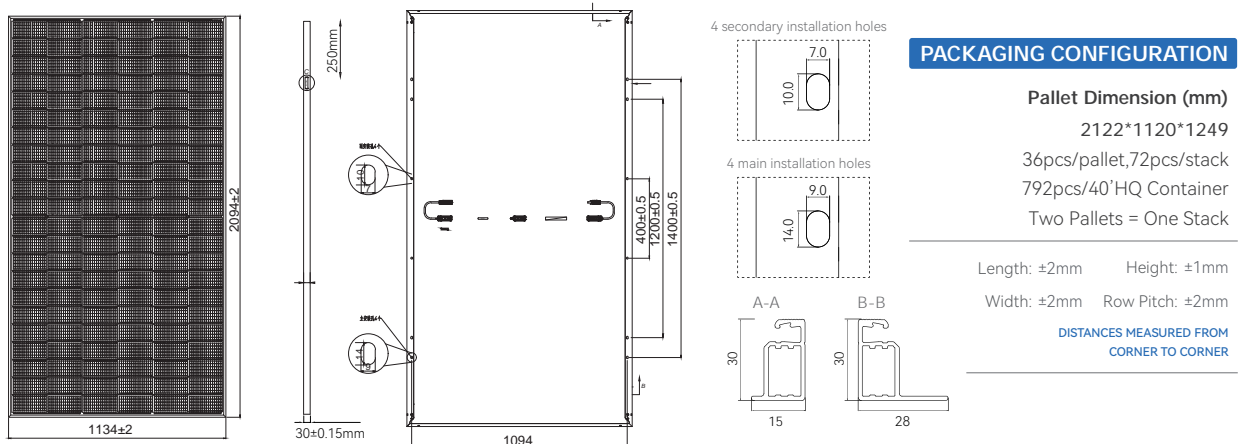
Year Product Warranty

30
YEARS

Year Linear Power Warranty



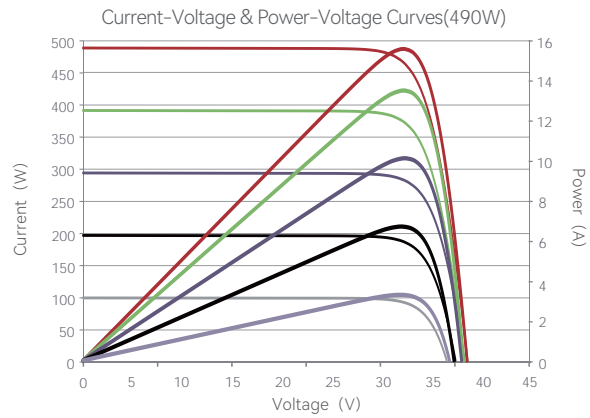
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	132 (6×22)
Dimensions	2094×1134×30mm
Weight	30.3kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Glazed glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 300mm, (-): 200mm or Customized Length

Electrical Performance & Temperature Dependence



MODULE TYPE	EM-N66 MB480		EM-N66MB485		EM-N66MB490		EM-N66MB495		EM-N66MB500	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	480Wp	364Wp	485Wp	367Wp	490Wp	371Wp	495Wp	375Wp	500Wp	379 Wp
Maximum Power Voltage (Vmp)	37.6V	35.81V	37.8V	36.0V	38.0V	36.19V	38.2V	36.38V	38.4V	36.57V
Maximum Power Current (Imp)	12.77A	10.21A	12.83A	10.26A	12.89A	10.32A	12.96A	10.37A	13.02A	10.42A
Open-circuit Voltage (Voc)	45.1V	42.55V	45.2V	42.64V	45.3V	42.74V	45.4V	42.83V	45.4V	42.92V
Short-circuit Current (Isc)	13.65A	11.01A	13.72A	11.06A	13.79A	11.12A	13.86A	11.18A	13.93A	11.23A
Module Efficiency STC (%)	20.21%		20.42%		20.64%		20.85%		21.06%	
Operating temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+5W									
Temperature coefficients of Pmax	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.046%/°C									
Nominal operating cell temperature (NOCT)	44°C±2°C									

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5

NOCT : Irradiance : 800W/m² Ambient Temperature : 20°C AM=1.5 Wind Speed 1m/s