

EM-N60MT 450-470

**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

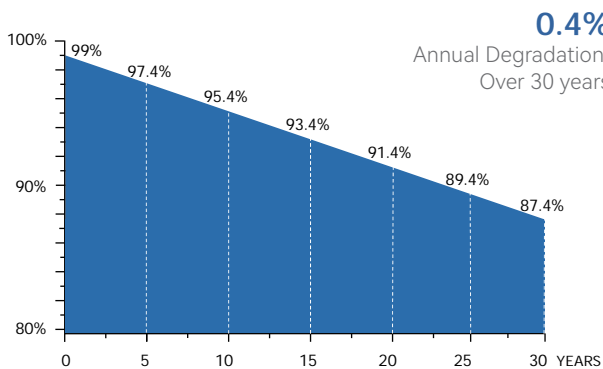
Lower LID / LETID attenuation with high reliable N-type module



Excellent temperature coefficient

Ensure high power generation in low temperature areas.

LINEAR PERFORMANCE WARRANTY



15
YEARS

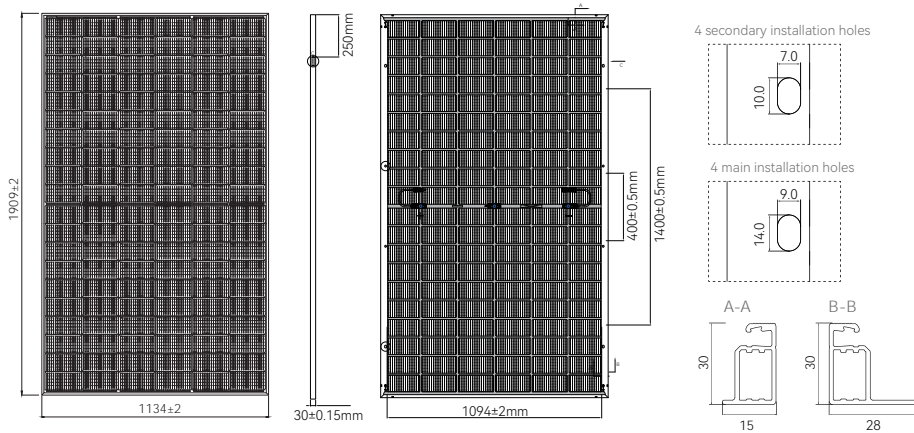
Year Product Warranty

30
YEARS

Year Linear Power Warranty



ASSEMBLY DRAWING



PACKAGING CONFIGURATION

Pallet Dimension (mm)
1931*1120*1249
36pcs/pallet, 72pcs/stack
864pcs/40'HQ Container
Two Pallets = One Stack

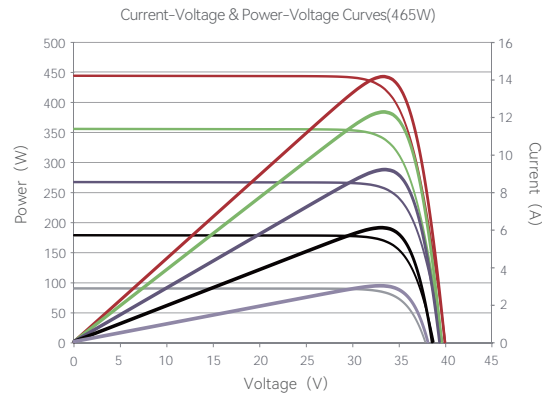
Length: ±2mm Height: ±1mm
Width: ±2mm Row Pitch: ±2mm

DISTANCES MEASURED FROM CORNER TO CORNER

Mechanical Characteristics

Cell Type	N-type Mono-crystalline
No. of cells	120 (6x20)
Dimensions	1909x1134x30mm
Weight	24.3kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	Transparent back sheet
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1x4.0mm ² (+): 300mm, (-): 200mm or Customized Length

Electrical Performance & Temperature Dependence



MODULE TYPE	EM-N60MT450		EM-N60MT455		EM-N60MT460		EM-N60MT465		EM-N60MT470	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	450Wp	341Wp	455Wp	345Wp	460Wp	348Wp	465Wp	352Wp	470Wp	356Wp
Maximum Power Voltage (Vmp)	34.2V	32.57V	34.4V	32.76V	34.6V	32.95V	34.8V	33.14V	35.0V	33.33V
Maximum Power Current (Imp)	13.16A	10.53A	13.23A	10.58A	13.3A	10.64A	13.37A	10.70A	13.43A	10.74A
Open-circuit Voltage (Voc)	41.6V	39.25V	41.8V	39.43V	42.0V	39.62V	42.2V	39.81V	42.4V	40.0V
Short-circuit Current (Isc)	13.83A	11.15A	13.91A	11.22A	13.99A	11.28A	14.07A	11.35A	14.15A	11.41A
Module Efficiency STC (%)	20.79%		21.02%		21.25%		21.48%		21.71%	
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									
Refer. Bifacial Factor	70±5%									

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