

EM-N60MB01

455-475

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.



Low attenuation technology

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



Bifacial power generation

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



Excellent temperature coefficient

Ensure high power generation in low temperature areas.

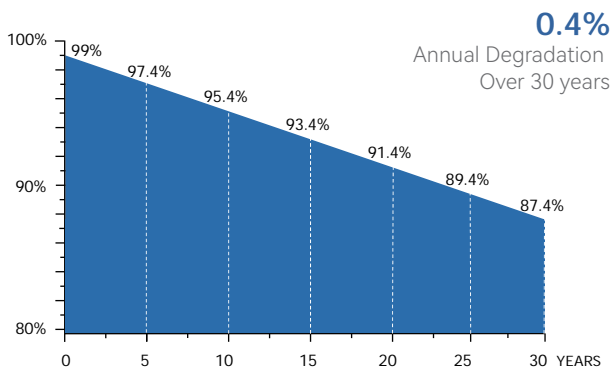


Anti-PID technology

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



LINEAR PERFORMANCE WARRANTY

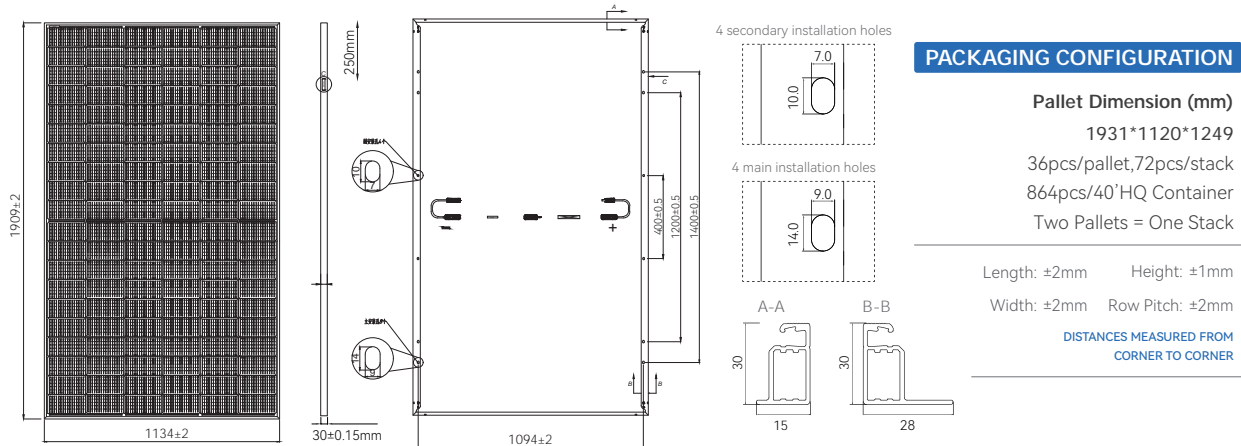


15 YEARS
Year Product Warranty

30 YEARS
Year Linear Power Warranty



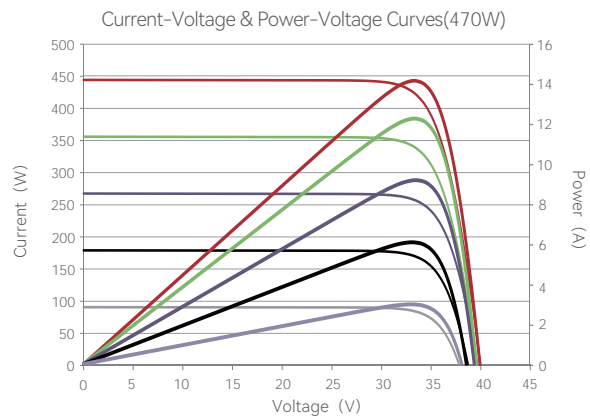
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1909×1134×30mm
Weight	28.3kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, back sheet
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-N60MB01455		EM-N60MB01460		EM-N60MB01465		EM-N60MB01470		EM-N60MB01475	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	455Wp	345Wp	460Wp	348Wp	465Wp	352Wp	470Wp	356Wp	475Wp	360 Wp
Maximum Power Voltage (Vmp)	34.4V	32.76V	34.6V	32.95V	34.8V	33.14V	35.0V	33.33V	35.3V	33.62V
Maximum Power Current (Imp)	13.23A	10.58A	13.3A	10.64A	13.37A	10.7A	13.43A	10.74A	13.49A	10.79A
Open-circuit Voltage (Voc)	41.8V	39.43V	42.0V	39.62V	42.2V	39.81V	42.4V	40.0V	42.6V	40.19V
Short-circuit Current (Isc)	13.91A	11.22A	13.99A	11.28A	14.07A	11.35A	14.15A	11.41A	14.24A	11.48A
Module Efficiency STC (%)	21.02%		21.25%		21.48%		21.71%		21.94%	
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