

EM-N54M 405-425

**BIFACIAL MODULE WITH
DUALGLASS**

N-TYPE

0~+5W

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

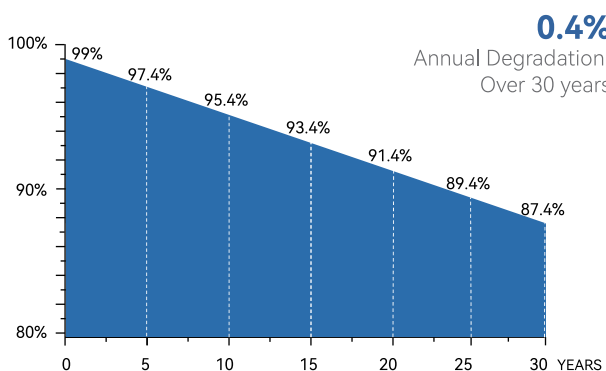
Ensure high power generation in low temperature areas.



Anti-PID technology

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

LINEAR PERFORMANCE WARRANTY

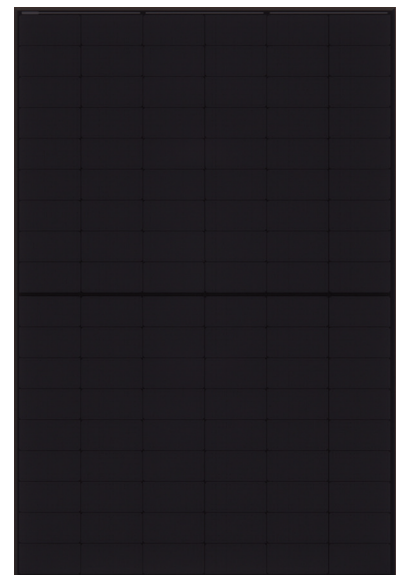


12
YEARS

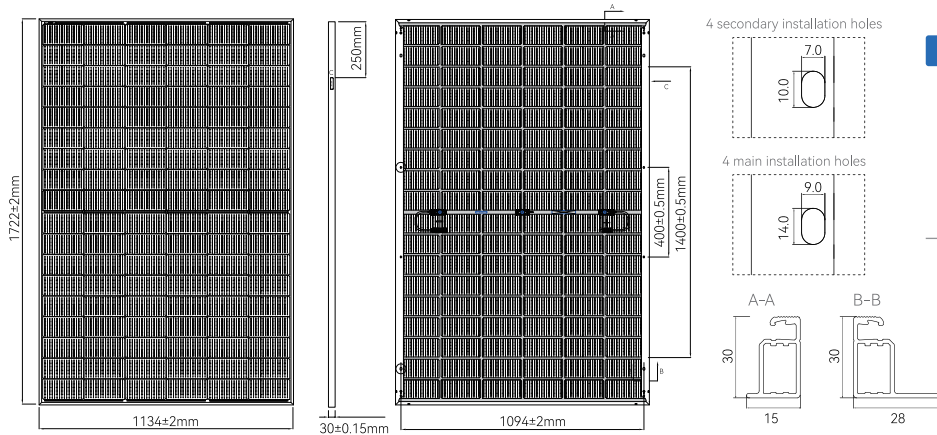
Year Product Warranty

30
YEARS

Year Linear Power Warranty



ASSEMBLY DRAWING



PACKAGING CONFIGURATION

Pallet Dimension (mm)
1750*1120*1249
36pcs/pallet, 72pcs/stack
936pcs/40'HQ Container
Two Pallets = One Stack

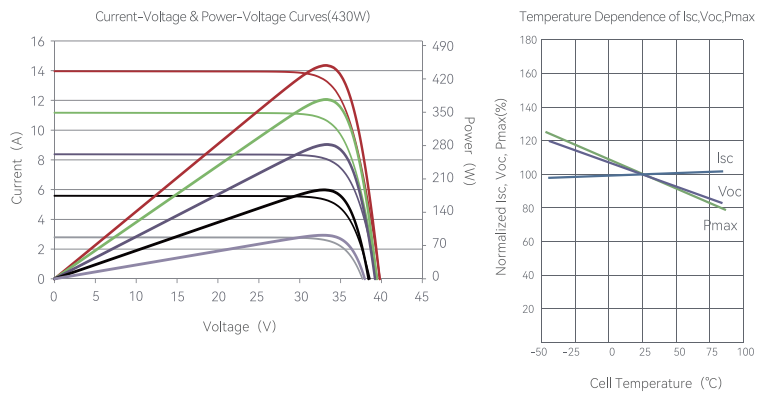
Length: ±2mm Height: ±1mm
Width: ±2mm Row Pitch: ±2mm

DISTANCES MEASURED FROM CORNER TO CORNER

Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (6×18)
Dimensions	1722×1134×30mm
Weight	24.3kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 350mm, (-): 250mm or Customized Length

Electrical Performance & Temperature Dependence



MODULE TYPE

	EM-N54M405		EM-N54M410		EM-N54M415		EM-N54M420		EM-N54M425	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	405Wp	306 Wp	410Wp	310Wp	415Wp	314Wp	420Wp	318Wp	425Wp	322 Wp
Maximum Power Voltage (Vmp)	30.9V	28.9V	31.1V	29.1V	31.3V	29.3V	31.5V	29.4V	31.7V	29.6V
Maximum Power Current (Imp)	13.11A	10.66A	13.19A	10.72A	13.26A	10.78A	13.34A	10.85A	13.41A	10.90A
Open-circuit Voltage (Voc)	37.5V	35.7V	37.7V	35.9V	37.9V	36.1V	38.1V	36.3V	38.3V	36.5V
Short-circuit Current (Isc)	13.83A	11.24A	13.91A	11.31A	13.99A	11.37A	14.07A	11.44A	14.15A	11.50A
Module Efficiency STC (%)	20.74%		21.00%		21.25%		21.51%		21.76%	
Operating temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
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