

EM-N54M 415-435

**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.

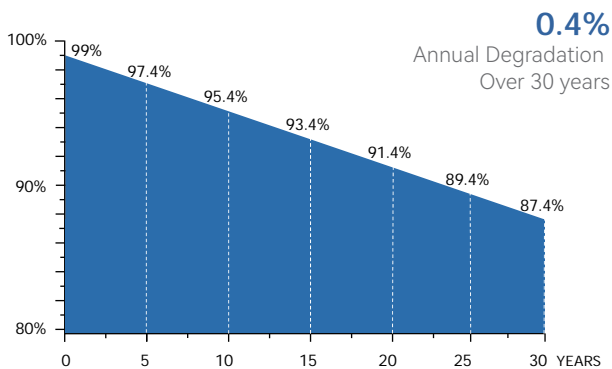


Anti-PID technology

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



LINEAR PERFORMANCE WARRANTY



15
YEARS

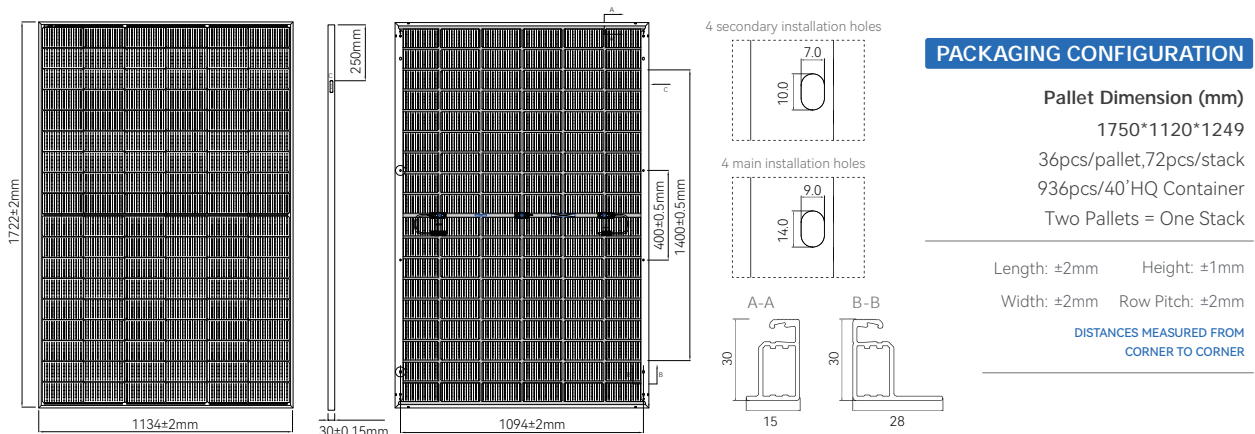
Year Product Warranty

30
YEARS

Year Linear Power Warranty



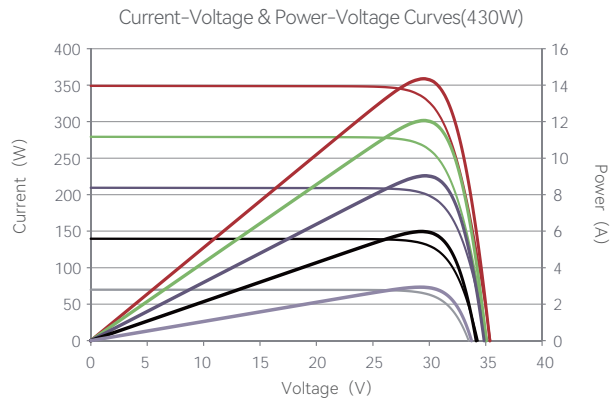
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (6×18)
Dimensions	1722×1134×30mm
Weight	24.3kg
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-N54M415		EM-N54M420		EM-N54M425		EM-N54M430		EM-N54M435	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	415Wp	314Wp	420Wp	318Wp	425Wp	322Wp	430Wp	326Wp	435Wp	330Wp
Maximum Power Voltage (Vmp)	31.3V	29.81V	31.5V	30.0V	31.7V	30.19V	31.9V	30.38V	32.1V	30.57V
Maximum Power Current (Imp)	13.26A	10.61A	13.34A	10.67A	13.41A	10.73A	13.48A	10.78A	13.55A	10.84A
Open-circuit Voltage (Voc)	37.9V	35.75V	38.1V	35.94V	38.3V	36.13V	38.5V	36.32V	38.7V	36.51V
Short-circuit Current (Isc)	13.99A	11.28A	14.07A	11.35A	14.15A	11.41A	14.23A	11.48A	14.31A	11.54A
Module Efficiency STC (%)	21.25%		21.51%		21.76%		22.02%		22.28%	
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