

# EM-N54MT 415-435

**BIFACIAL MODULE WITH  
DUALGLASS**  
N-TYPE

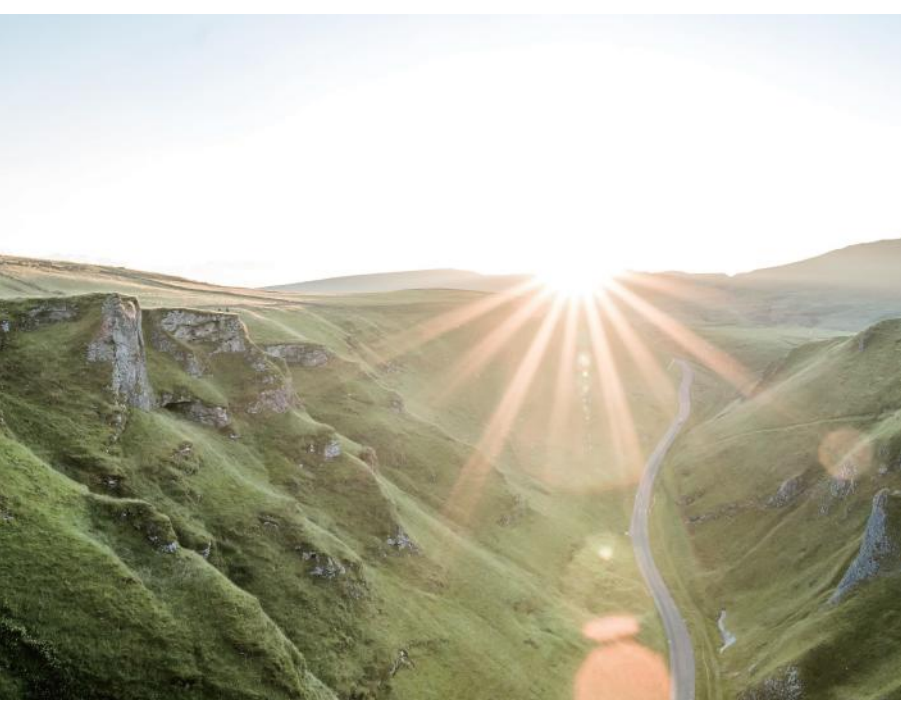
**POSITIVE POWER TOLERANCE**

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.



### 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

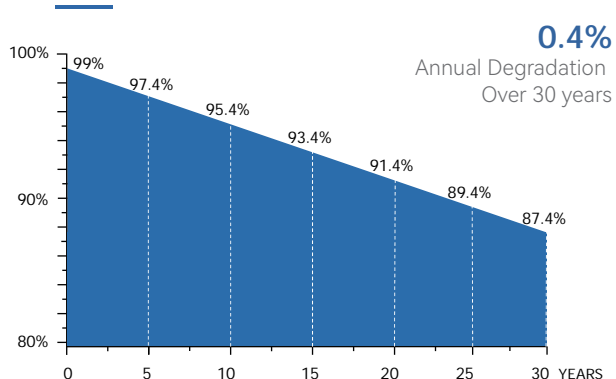
Lower LID / LETID attenuation with high reliable N-type module



### Excellent temperature coefficient

Ensure high power generation in low temperature areas.

## LINEAR PERFORMANCE WARRANTY



**15**  
YEARS

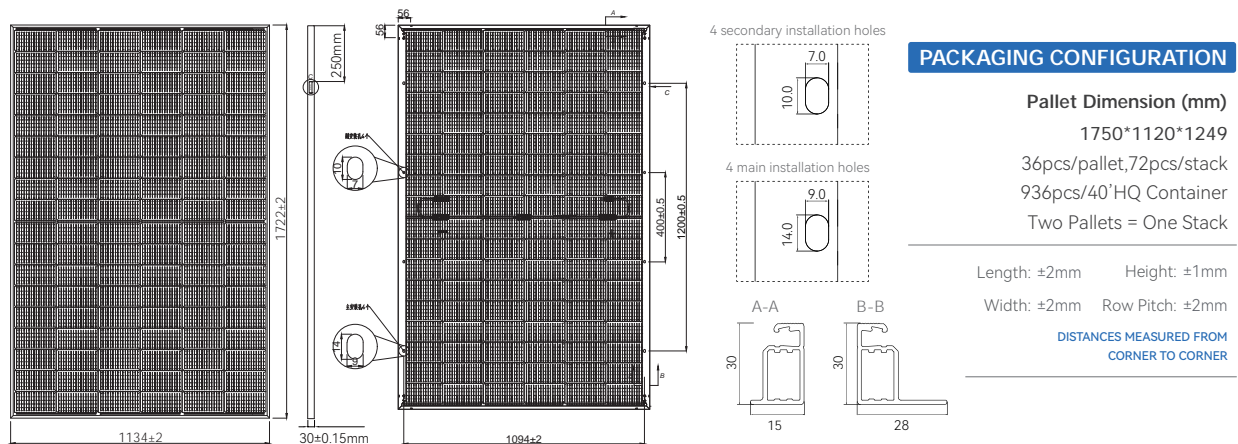
Year Product Warranty

**30**  
YEARS

Year Linear Power Warranty



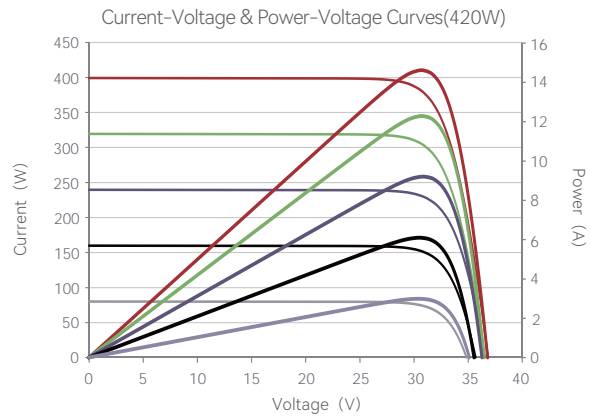
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (6×18)
Dimensions	1722×1134×30mm
Weight	21.3kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, transparent back sheet
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 300mm, (-): 200mm or Customized Length

Electrical Performance & Temperature Dependence



MODULE TYPE	EM-N54MT415		EM-N54MT420		EM-N54MT425		EM-N54MT430		EM-N54MT435	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	415Wp	314Wp	420Wp	318Wp	425Wp	322Wp	430Wp	326Wp	435Wp	330 Wp
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	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/m<sup>2</sup> Cell Temperature : 25°C AM=1.5

NOCT : Irradiance : 800W/m<sup>2</sup> Ambient Temperature : 20°C AM=1.5 Wind Speed 1m/s