

# EM-N72M 570-590

**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.

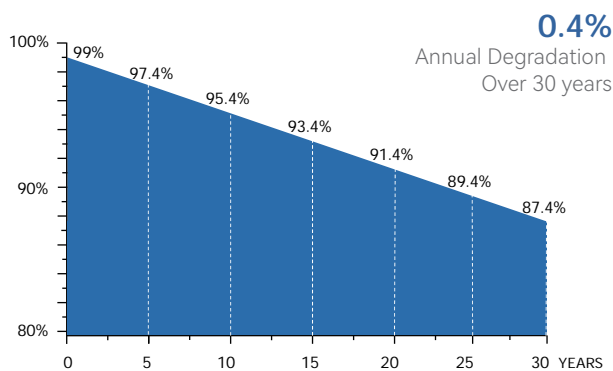


### Anti-PID technology

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



## LINEAR PERFORMANCE WARRANTY



**15**  
YEARS

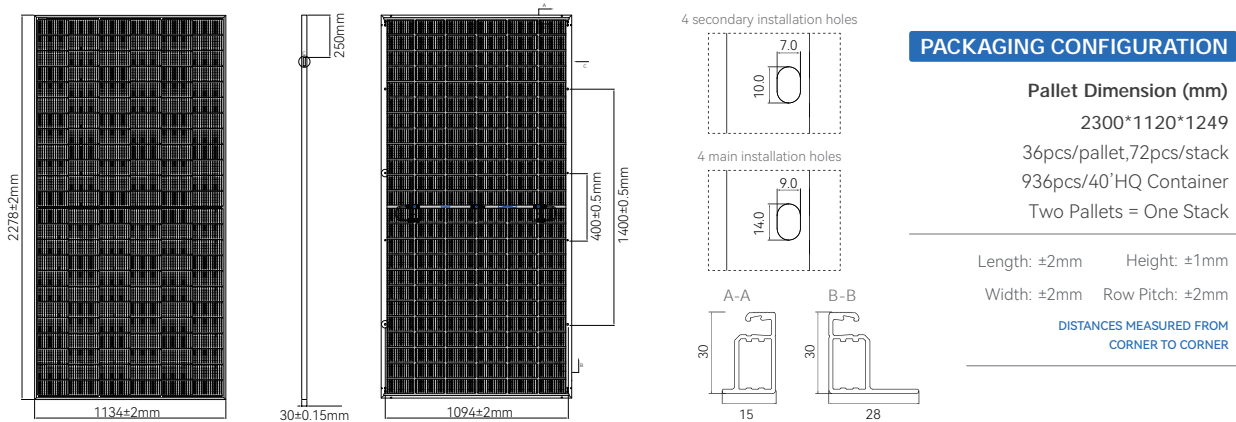
Year Product Warranty

**30**  
YEARS

Year Linear Power Warranty



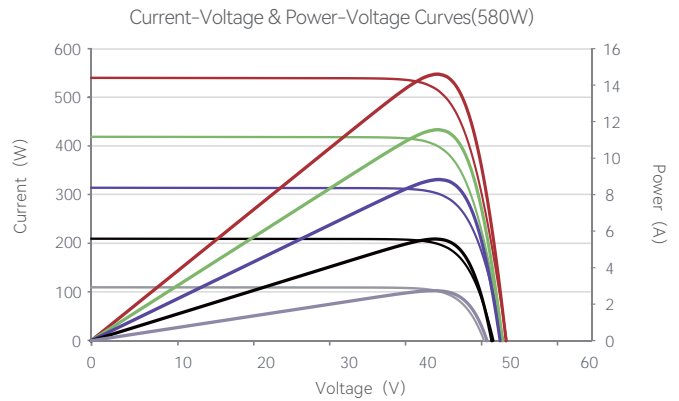
**ASSEMBLY DRAWING**



**Mechanical Characteristics**

Cell Type	N type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×30mm
Weight	32.3kg
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 <sup>2</sup> (+): 300mm, (-): 200mm or Customized Length

**Electrical Performance & Temperature Dependence**



MODULE TYPE	EM-N72M580		EM-N72M585		EM-N72M590		EM-N72M595		EM-N72M600		EM-N72M605	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	580Wp	437Wp	585Wp	441Wp	590Wp	445Wp	595Wp	449Wp	600Wp	453Wp	605Wp	457Wp
Maximum Power Voltage (Vmp)	42.6V	40.89V	42.8V	41.05V	43V	41.21A	43.2V	41.38A	43.4V	41.55A	43.6V	41.72A
Maximum Power Current (Imp)	13.62A	10.69A	13.67A	10.74A	13.73A	10.79A	13.81A	10.84A	13.89A	10.89A	13.97A	10.94A
Open-circuit Voltage (Voc)	51.5V	39.9V	51.7V	40.05V	51.9V	40.2V	52.1V	40.35V	52.3V	40.5V	52.5V	40.65V
Short-circuit Current (Isc)	14.37A	11.26A	14.43A	11.31A	14.49A	11.36A	14.55A	11.41A	14.61A	11.46A	14.67A	11.51A
Module Efficiency STC (%)	22.45%		22.65%		22.84%		23.03%		23.22%		23.41%	
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