

# EM-P54M 395-415

**BIFACIAL MODULE WITH  
DUALGLASS**  
P-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.

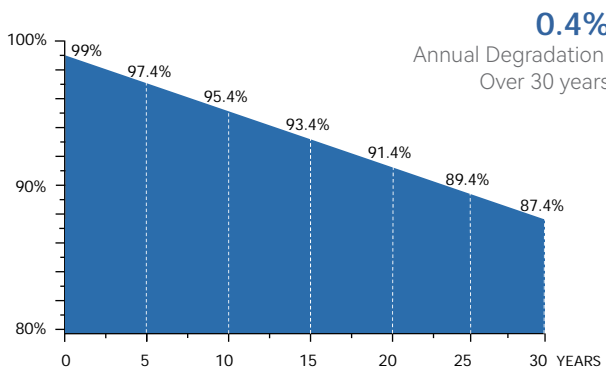


### Anti-PID technology

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



## LINEAR PERFORMANCE WARRANTY



**15**  
YEARS

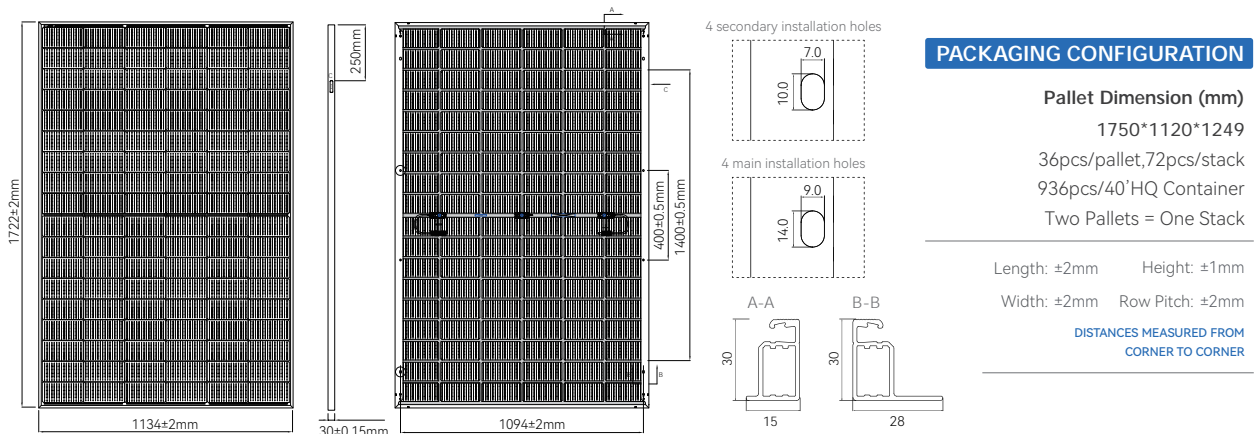
Year Product Warranty

**30**  
YEARS

Year Linear Power Warranty



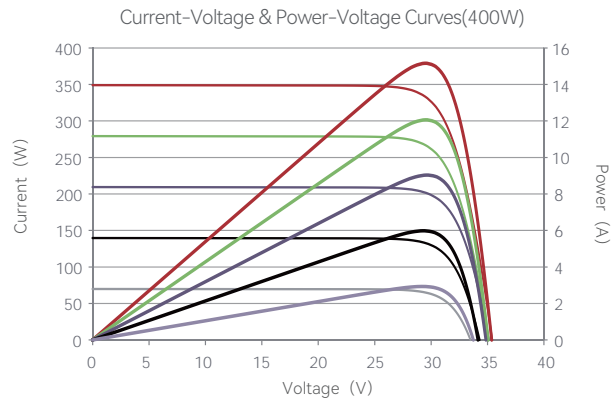
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	P 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 <sup>2</sup> (+): 300mm, (-): 200mm or Customized Length

Electrical Performance & Temperature Dependence



MODULE TYPE	EM-P54M395		EM-P54M400		EM-P54M405		EM-P54M410		EM-P54M415	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	395Wp	299Wp	400Wp	303Wp	405Wp	307Wp	410Wp	311Wp	415Wp	314 Wp
Maximum Power Voltage (Vmp)	30.7V	29.24V	30.9V	29.43V	31.1V	29.62V	31.3V	29.81V	31.5V	30.0V
Maximum Power Current (Imp)	12.87A	10.29A	12.94A	10.36A	13.02A	10.42A	13.09A	10.47A	13.16A	10.53A
Open-circuit Voltage (Voc)	37.1V	35.0V	37.3V	35.19V	37.5V	35.38V	37.6V	35.47V	37.8V	35.66V
Short-circuit Current (Isc)	13.79A	11.12A	13.89A	11.18A	13.93A	11.23A	14.0A	11.29A	14.08A	11.35A
Module Efficiency STC (%)	20.23%		20.48%		20.74%		21.00%		21.25%	
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	-0.35%/°C									
Temperature coefficients of Voc	-0.31%/°C									
Temperature coefficients of Isc	0.05%/°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