

EM-P54MC 530-550

**BIFACIAL MODULE WITH
DUALGLASS**
P-TYPE

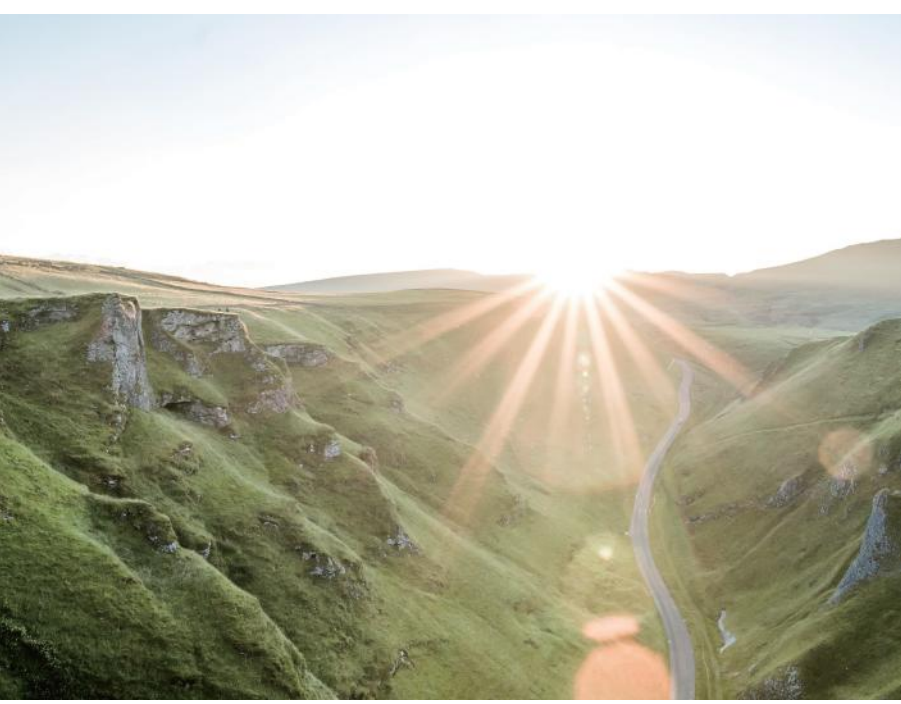
POSITIVE POWER TOLERANCE

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.



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

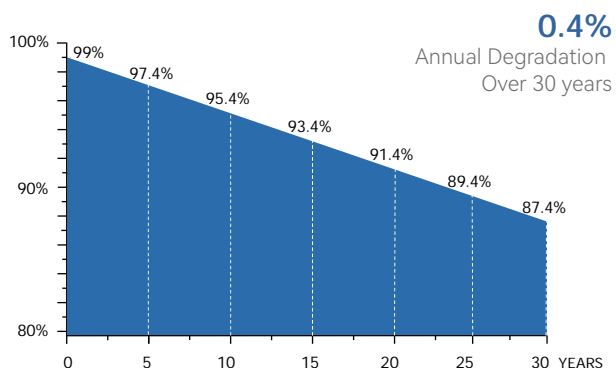


Excellent temperature coefficient

Ensure high power generation in low temperature areas.



LINEAR PERFORMANCE WARRANTY

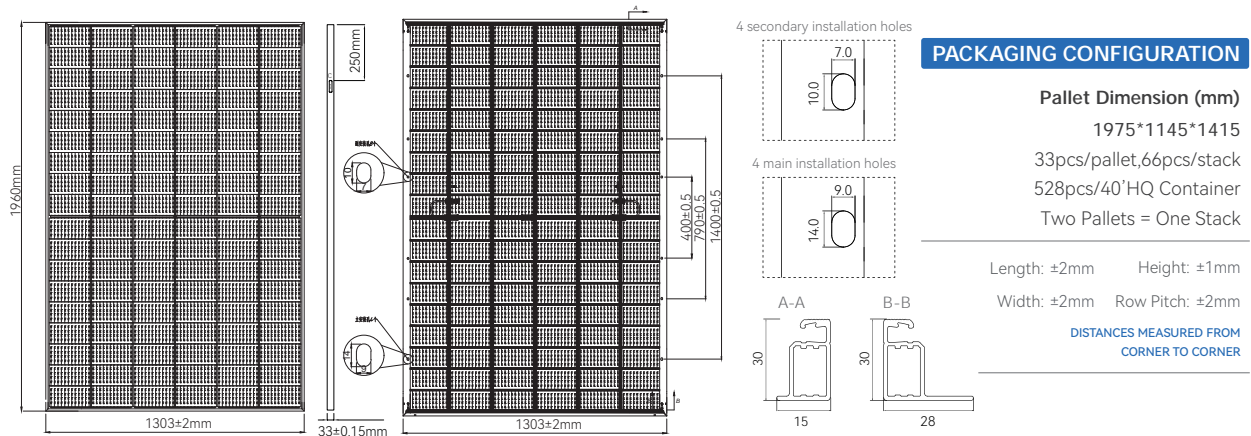


15
YEARS
Year Product Warranty

30
YEARS
Year Linear Power Warranty



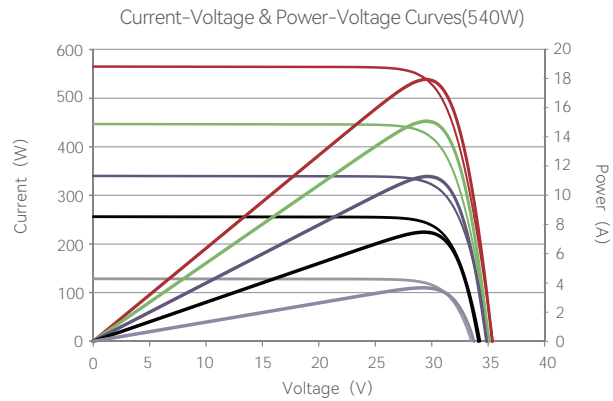
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	108 (6×18)
Dimensions	1960×1303×33mm
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 ² (+): 300mm, (-): 200mm or Customized Length

Electrical Performance & Temperature Dependence



MODULE TYPE	EM-P54MC530		EM-P54MC535		EM-P54MC540		EM-P54MC545		EM-P54MC550	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	530Wp	402Wp	535Wp	405Wp	540Wp	409Wp	545Wp	413Wp	550Wp	417Wp
Maximum Power Voltage (Vmp)	30.8V	29.33V	31.0V	29.52V	31.2V	29.71V	31.4V	29.9V	31.6V	30.1V
Maximum Power Current (Imp)	17.21A	13.77A	17.26A	13.81A	17.31A	13.85A	17.36A	13.89A	17.41A	13.93A
Open-circuit Voltage (Voc)	37.1V	35.0V	37.3V	35.19V	37.5V	35.38V	37.7V	35.57V	37.9V	35.75V
Short-circuit Current (Isc)	18.31A	14.77A	18.36A	14.81A	18.41A	14.85A	18.46A	14.89A	18.51A	14.93A
Module Efficiency STC (%)	20.75%		20.95%		21.14%		21.34%		21.54%	
Operating temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	35A									
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/m² Cell Temperature : 25°C AM=1.5

NOCT : Irradiance : 800W/m² Ambient Temperature : 20°C AM=1.5 Wind Speed 1m/s