

EM-P60MC 590-610

**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

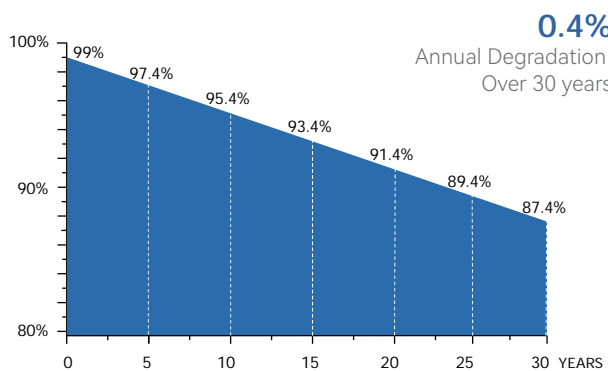


Excellent temperature coefficient

Ensure high power generation in low temperature areas.



LINEAR PERFORMANCE WARRANTY



15
YEARS

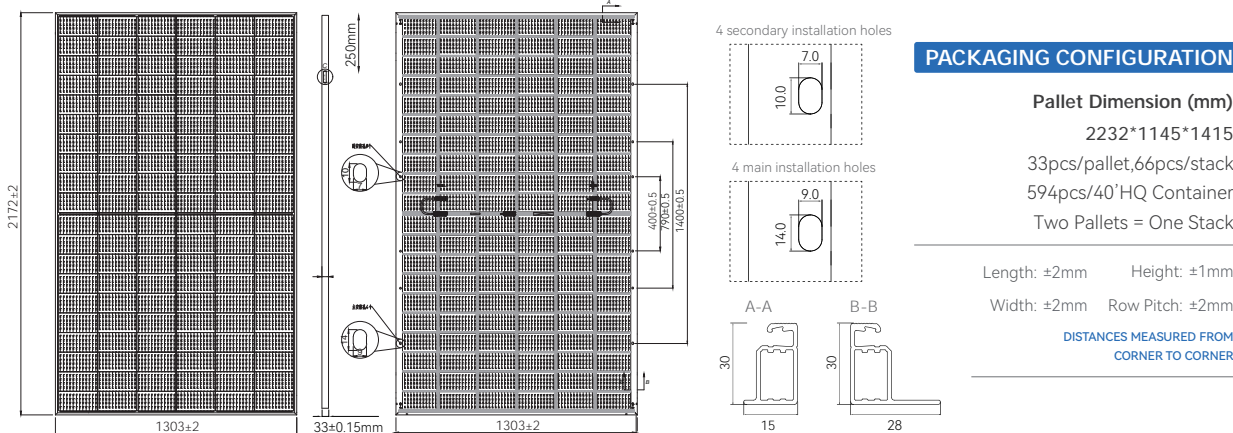
Year Product Warranty

30
YEARS

Year Linear Power Warranty



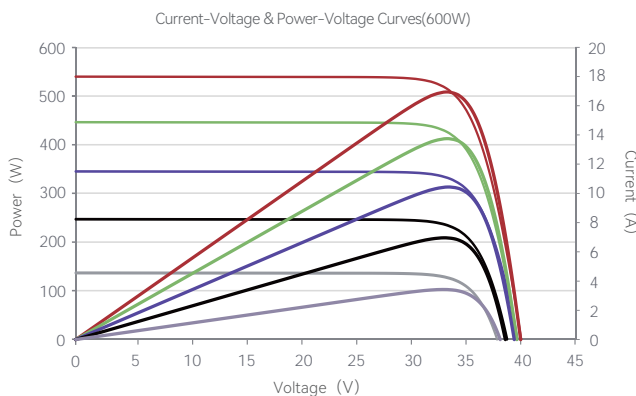
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	P-type Mono-crystalline
No. of cells	120 (6x20)
Dimensions	2172x1303x33mm
Weight	35.3kg
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-P60MC590		EM-P60MC595		EM-P60MC600		EM-P60MC605		EM-P60MC610	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	590Wp	447Wp	595Wp	451Wp	600Wp	455Wp	605Wp	458Wp	610Wp	462Wp
Maximum Power Voltage (Vmp)	34.2V	32.57V	34.4V	32.76V	34.6V	32.95V	34.8V	33.14V	35.0V	33.33V
Maximum Power Current (Imp)	17.25A	13.8A	17.3A	13.84A	17.34A	13.87A	17.39A	13.91A	17.43A	13.94A
Open-circuit Voltage (Voc)	41.3V	38.96V	41.5V	39.15V	41.7V	39.34V	41.9V	39.53V	42.1V	39.72V
Short-circuit Current (Isc)	18.31A	14.77A	18.36A	14.81A	18.42A	14.85A	18.47A	14.9A	18.52A	14.94A
Module Efficiency STC (%)	20.85%		21.02%		21.20%		21.38%		21.55%	
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									
Refer. Bifacial Factor	70±5%									

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