

EM-P66M 485-505

**BIFACIAL MODULE WITH
DUALGLASS**

P-TYPE

0~+5W

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

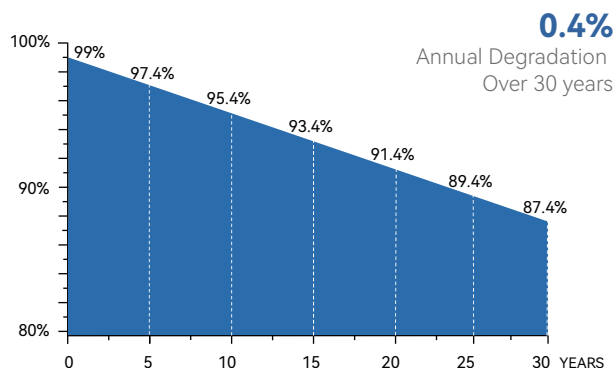
Ensure high power generation in low temperature areas.



Anti-PID technology

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

LINEAR PERFORMANCE WARRANTY



15
YEARS

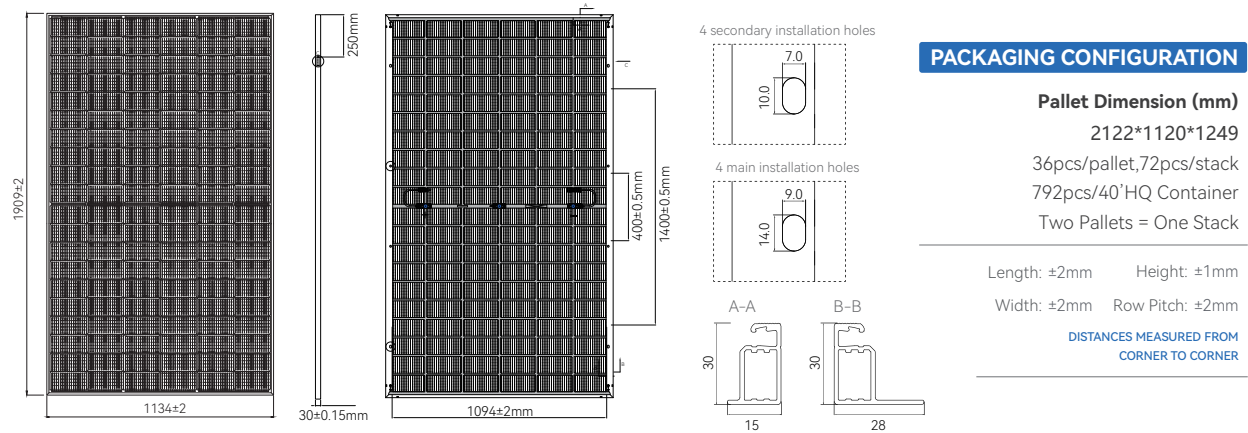
Year Product
Warranty

30
YEARS

Year Linear
Power Warranty



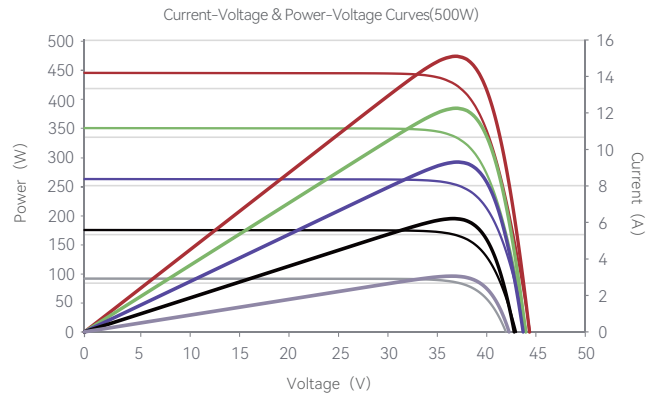
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	120 (6x20)
Dimensions	2094x1134x30mm
Weight	30.3kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Glazed glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TÜV 1×4.0mm ² (+): 300mm, (-): 200mm or Customized Length

Electrical Performance & Temperature Dependence



MODULE TYPE	EM-P66M485		EM-P66M490		EM-P66M495		EM-P66M500		EM-P66M505	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	485Wp	367Wp	490Wp	371Wp	495Wp	375Wp	500Wp	379Wp	505Wp	383Wp
Maximum Power Voltage (Vmp)	37.8V	36.0V	38.0V	36.19V	38.2V	36.38V	38.4V	36.57V	38.6V	36.76V
Maximum Power Current (Imp)	12.83A	10.26A	12.89A	10.32A	12.96A	10.37A	13.02A	10.42A	13.08A	10.47A
Open-circuit Voltage (Voc)	45.2V	42.64V	45.3V	42.74V	45.4V	42.83V	45.5V	42.92V	45.6V	43.02V
Short-circuit Current (Isc)	13.72A	11.06A	13.79A	11.12A	13.86A	11.18A	13.93A	11.23A	14.0A	11.29A
Module Efficiency STC (%)	20.42%		20.64%		20.85%		21.06%		21.27%	
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									
Refer. Bifacial Factor	70±5%									

STC : Irradiance : 1000W/m² Cell Temperature : 25°C AM=1.5NOCT : Irradiance : 800W/m² Ambient Temperature : 20°C AM=1.5 Wind Speed 1m/s