

EM-N48MRT 430-450

**BIFACIAL MODULE WITH
DUALGLASS**
N-TYPE

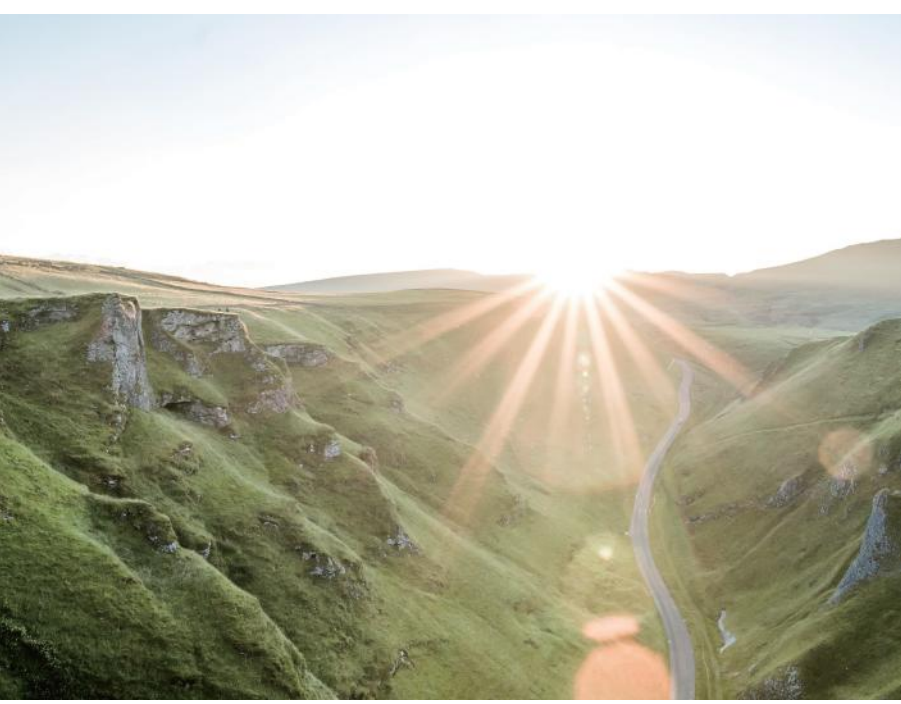
POSITIVE POWER TOLERANCE

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.



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

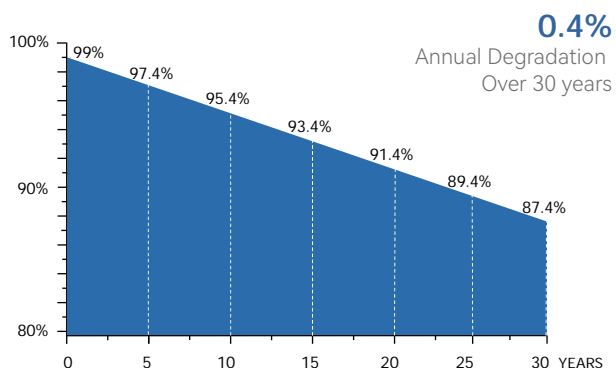


Excellent temperature coefficient

Ensure high power generation in low temperature areas.



LINEAR PERFORMANCE WARRANTY

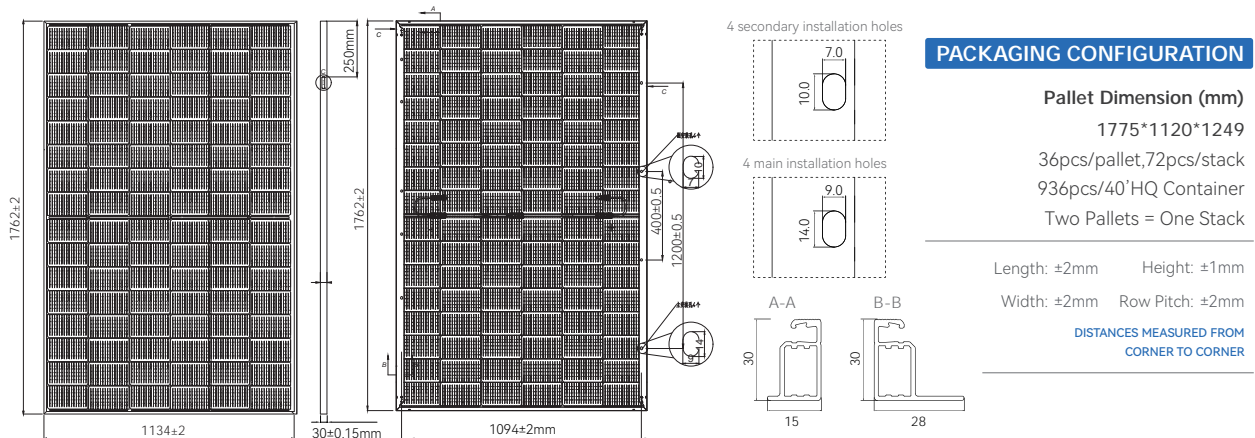


15
YEARS
Year Product Warranty

30
YEARS
Year Linear Power Warranty



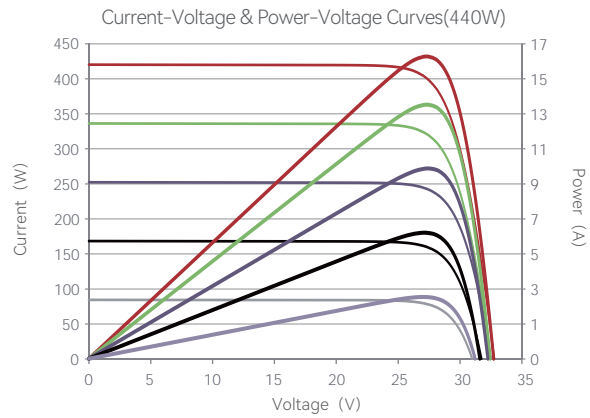
ASSEMBLY DRAWING



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	96 (6×16)
Dimensions	1762×1134×30mm
Weight	20.9kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, transparent back sheet
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-N48MRT430		EM-N48MRT435		EM-N48MRT440		EM-N48MRT445		EM-N48MRT450	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp	445Wp	335Wp	450Wp	338 Wp
Maximum Power Voltage (Vmp)	29.36V	27.31V	29.54V	27.51V	29.72V	27.68V	29.9V	27.88V	30.08V	27.96V
Maximum Power Current (Imp)	14.65A	11.83A	14.73A	11.89A	14.81A	11.96A	14.89A	12.02A	14.97A	12.09A
Open-circuit Voltage (Voc)	34.31V	32.59V	34.49V	32.77V	34.67V	32.94V	34.85V	33.11V	35.03V	33.28V
Short-circuit Current (Isc)	15.85A	12.8A	15.9A	12.84A	15.95A	12.88A	16.0A	12.92A	16.05A	12.96A
Module Efficiency STC (%)	21.52%		21.77%		22.02%		22.27%		22.52%	
Operating temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
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/m² Cell Temperature : 25°C AM=1.5

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